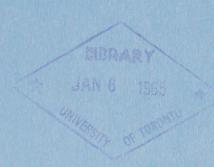




CAI MUI - 6451970 Digitized by the Internet Archive in 2023 with funding from University of Toronto





DATA RECORD

GULF OF ST. LAWRENCE

6690

No. 19-20 1964 Data Record Series

1964 19-20

Canadian Oceanographic Data Centre

Programmed by the Canadian Committee on Oceanography



1025202

ROGER DUHAMEL, F. R. S. C. QUEEN'S PRINTER AND CONTROLLER OF STATIONERY OTTAWA, 1964

Cat. No. M58-1/1964-19

CANADIAN OCEANOGRAPHIC DATA CENTRE

615 Booth Street, Ottawa, 4

Data Record

GULF OF ST. LAWRENCE

(CODC Reference: 01-63-005)

No 19

1964 Data Record Series

AND REAL PROPERTY OF THE PROPE

Design Harden

SOUTHWAY TO BE WANTED

and the second start start

1835500

Programmatical to the Canadalan Managarant and a second of

FISHERIES RESEARCH BOARD OF CANADA

Gulf of St. Lawrence

Ship:

C.N.A.V. "SACKVILLE"

Local cruise designation:

S-73

Cruise period:

June 25 - July 8, 1963

Observers:

R.W. Trites

B.L. Blackford

G.P. Cant

G.B. Taylor

T.A. Grant

ATLANTIC OCEANOGRAPHIC GROUP

Bedford Institute of Oceanography, Dartmouth, N.S.

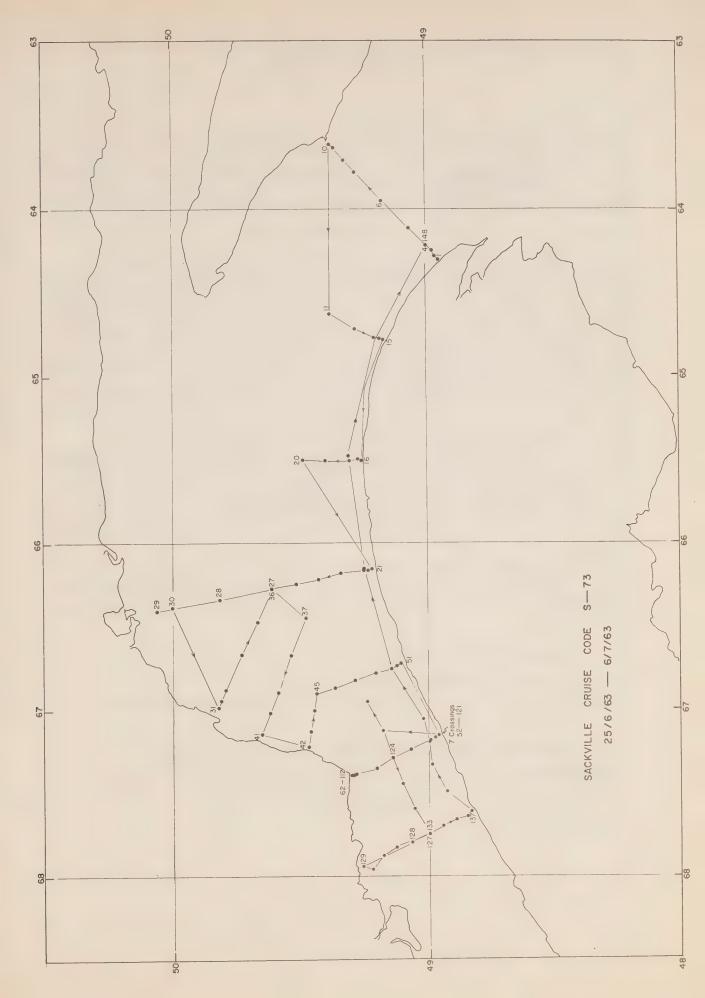
* the Allerton test young accessed by contrast brolless. SECTION I

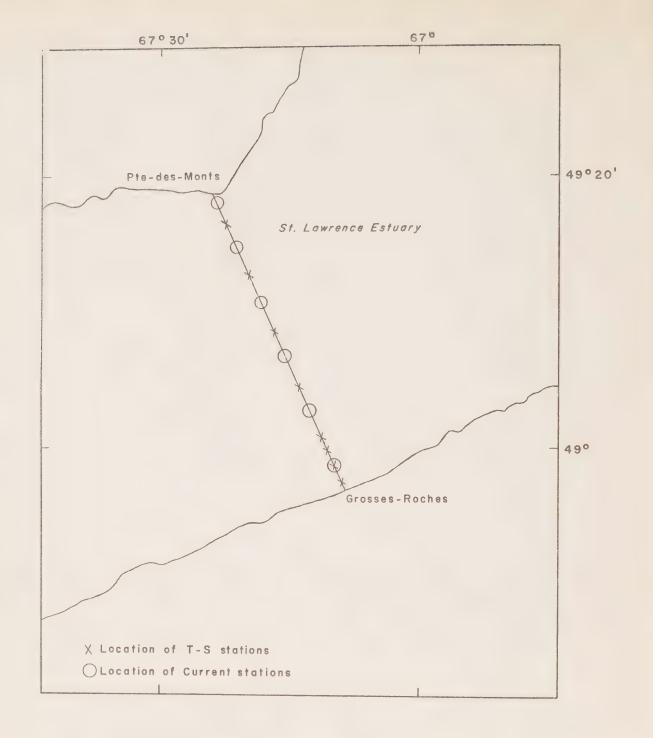
Description of data collection procedures











LOCATION OF CO-ORDINATED OCEANOGRAPHIC
OBSERVATIONS WITH CNAV "SACKVILLE" AND M/V "THETA"
JULY 1963

INTRODUCTION

The purpose of this cruise was: first, to obtain detailed temperature and salinity data in the Pointe-des-Monts area of the St. Lawrence Estuary; second, to measure turbidity at oceanographic stations using a Brice-Phoenix light scattering photometer; third, to track, for a brief period, parachute drogues released in the area; fourth, to obtain a small number of grabs in the same vicinity.

A network of oceanographic stations was occupied between English Point, Gaspe, and Baie Comeau, P.Q. Most intensive observations were made along a section from Pointe-des-Monts to Grosses Roches (10 stations). M/V "THETA" was engaged in current measurements across this section. Approximately 15 current meters were operating throughout this section during the entire period of the "SACKVILLE" cruise. A coordinated program with M/V "THETA" was carried out so that reasonably synoptic observations across the current meter section could be obtained. Each ship started simultaneously from either end of the line and occupied the section 6 times.

Two parachute drogues released midway along the current meter section were recovered approximately 5 days later; the first one located at 75 metres had moved 30 miles southwesterly, and the second located at 225 metres had drifted 10 miles to the southeast. On a second trial, the deeper one moved in the same direction, i.e. southeasterly, but the 75 metre one moved northeasterly contrary to the first experiment.

A total of 148 oceanographic stations were occupied, 11 bottom grabs were taken, 5 parachute drogues were released and tracked, 1665 water samples were drawn, and approximately 1000 turbidity samples were analysed.

EXTRACT OF CRUISE LOG

Departed Halifax, N.S. - June 25, 1963 Returned Halifax, N.S. - July 8, 1963.

OBSERVATION PROCEDURES

Oceanographic samples were taken at all stations at standard depths from surface to 50 metres and from this point to bottom at every 25 metres. The deepest station was recorded at 370 metres. Sample reversing bottles were of the Knudsen type, coupled with two protected reversing thermometers of the Negretti and Zambra or Richter and Wiese or Yoshino type. The unprotected reversing thermometers were used from 150 metres down. All thermometers were read twice to check for possible errors.

A Brice - Phoenix light-scattering photometer was used on board the ship to measure turbidity. Scattering of blue light (4360 A.) through 90° was measured from samples of water drawn from the reversing bottles. Plans and prefiles of turbidity are being confoured and compared with the corresponding plots of temperature and salinity.

All meteorological observations were taken by the ship's officers.

LABORATORY PROCEDURES

Salinities were processed ashere on a National Institute of Oceanography conductivity bridge. Temperatures and depths were processed and checked for possible errors.

Eleven bottom grabs were taken to study the chemical composition of the bottom of the area. They were analyzed and the results will be published in a subsequent report.

The results of current observations by direct measurements such as current meters and parachute drogues will be compared and analyzed with the dynamic calculations derived from salinity and temperature values.

BATHYTHERMOGRAPH DATA

A total of 148 BT observations were taken during the cruise and subsequently processed at the Bathythermograph Data Centre of the Bedford Institute of Oceanography, Dartmouth.

All bathythermographs were taken a few minutes prior to the corresponding oceanographic stations. The bathythermograph number corresponds to the consecutive number.

The BT traces shown in Section IV have been drawn on standard pre-printed graphs resembling BT calibration grids.

PERSONNEL

At Sea:

R.W. Trites

B.L. Blackford

G.P. Cant

G.B. Taylor

T.A. Grant

R.J. Lahey

G. Jobidon

N.D. Khien

Data Analyses

Physical Oceanography:

J.R. Chevrier

R.W. Trites

Scientist in Charge

G.B. Taylor

T.A. Holler

Salinities:

M.E. MacLean

W. Young

BT Processing:

T.A. Grant

D.M. MacDonald

Current analyses:

R.W. Trites

B.L. Blackford.



SECTION II

Description of the machine-generated data record



INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation cycle.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. If interpolations are carried out, additional derived quantities are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "estimate of precision" for each observed variable selected for interpolation at the standard oceanographic depth. The precision depends on the instrument or technique used to determine the variable.

A standard precision stated as a standard deviation (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" of section II of the data record.

The measurement error estimate of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "interpolation error estimate" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; first, to give an indication of the quality of interpolated data; second, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, O₂) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "measurement error estimate" comprises the "combined measurement and interpolation error estimate". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

	2 2-0.5° 5	and we were the common to the
A B A	CONSEC. NUMBER 77 78 79	
CHECKED	CRUISE REFERENCE NUMBER	- G
VESSEL ENTERED BY	UNASSIGNED	z
		Z - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AFTER S. W. W.	The state of the s
DEPTH TO BOTTOM	W.W. CODE CODE (SEPT. 62)	C .
6.M.T. 10 6.M.T. 10	WET BULB 10 (5	a Te Li If away to Lo W TC 4
Н БАҮ	AIR TEMP.	d oxygen
YEAR 19 20	BAROMETER	THE THE TABLE TH
MIN. # # # # # # # # # # # # # # # # # # #	WIND DIR, CONTROL	A TURE
LONGITUDE FEG.º	Pw Hw	ac ·
	ž O	SAMPLE OF
LATITU DEG.º	WAV D W	
COUNTRY INST.	WATER COLOUR TRANS.	HOURS G.M.T.
E E COUN	2 A M	· ·

$$\frac{\mathcal{O}_i}{\mathcal{O}} = \left\{ \frac{(\Delta \, \mathbf{V}_i)^2}{\mathcal{O}^{\frac{1}{2}}} + \sum_{n=j-2}^{j+1} \left(\Upsilon_n \right)^2 \left(\frac{\mathcal{O}_n}{\mathcal{O}} \right)^2 \right\}^{1/2} \quad \text{, where}$$

 \mathcal{O}_i = Standard deviation of the combined error estimates at standard oceanographic depth,

 ΔV_t = the interpolation error estimate of variable "V" at standard oceanographic depth = $\frac{1}{3}$ (V_{t_4} - V_{t_2})

Y = Interpolation polynomial coefficient.

 $Z_i = Observed depth.$

 Z_{i} = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_{i} < Z_{j} < Z_{j+1}$

The integral part of the fraction $\frac{\sigma}{\sigma}$, if $\frac{1}{\sigma}$ 2, is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO (6) YR (10) DEPTH (1	5) WAVES 1 (20) AIR T (25) VIS
	6) WAVES 2 (21) WET B (26) STN
	7) WND-DIR (22) WW-CODE
\0)	8) WND-FCE (23) CLD-TPE
(1)	9) BARO (24) CLD-AMT (27) HW

(1) CRUISE REFER-

ENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each

year (effective Jan. 1, 1963). Prior to that date the C.R.N. was a number

designated by C.O.D.C.

(2) CONSECUTIVE

NUMBER: Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code (see Marsden square chart) in which

the observation is located.

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR: The time (Greenwich Mean Time) at which the Master-card data were

recorded.

It is reported to tenths of hours (Table 1).

If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates

that the reported time is doubtful.

(10) DEPTH: The sounding reported in metres. If corrected, this is stated in the

"GENERAL INFORMATION" chapter of section II. Charted depths are

denoted by the sounding value, preceded by the letter "C".

(11) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00 51 m - 150 m = 01 151 m - 250 m = 02

etc.

(12) NUMBER OF

DEPTHS: The number of levels observed (this is entered to initiate a computer

safety check, guarding against the loss of punch cards).

(13) WATER COLOUR: A code based on

A code based on the percentage of yellow (see table 2 and NOTE under

FIELD "14" below).

(14) WATER

TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in

diameter) just disappears from view, or the optical density expressed in

percentage;

NOTE: The "GENERAL INFORMATION" chapter in section II of the data record

will state which method was used.

(15) WAVES 1

(dwdwPwHw-code): The direction, period and height of the wind-propagated wave system.

(See Tables 3, 4 and 5). Ref: World Meteorological Organization Code

3155.

(16) WAVES 2

(dwdwPwHw-code): The direction, period and height of the predominant other-than wind-

propagated wave system. (See Tables 3, 4 and 5). Ref: World Meteorolo-

gical Organization Code 3155.

(17) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is

blowing. Wind direction 990 means:-wind variable or direction unknown.

(18) WIND FORCE

(WND-FCE): Beaufort Notation (See Table 6).

WIND SPEED

(WND-SPD): Anemometer reading reported in metres per second. Instrument height

reported in "GENERAL INFORMATION" chapter of section II.

(19) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMA-

TION" chapter in Section II of the data record will state the type of instru-

ment used.

(20) AIR

TEMPERATURE: In degrees Celsius.

(21) WET BULB: In degrees Celsius.

(22) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677

(23) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.

(24) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700

(25) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.

(26) STATION: A station reference number, assigned by the institute prior to, or during

the survey.

(27) HOURS AFTER

HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT (2) DEPTH (3) TEMP (4) SAL (5) OXYGEN (6) SGMT (7) SOUND (8) PO_4 (9) -P- (10) NO_2 (11) NO_3 (12) SiO_3 (13) pH.

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear

beyond 24.0 hours. This will be accompanied by a statement:

"MULTIPLE CAST CONTINUED NEXT DAY", which is printed following

the last level of observed values.

(2) DEPTH: The depth in metres at the moment the oceanographic bottle reversed.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C.

Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL"

INFORMATION" chapter of this section.

An alphabetical character following the Temperature value represents the measurement error estimate referred to in the INTRODUCTION to this

section.

(4) SALINITY: Salinity as defined by: S = 0.03 + 1.805 C1%, reported in:

a. 1/100 parts per 1000, orb. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measure-

ment error estimate as referred to under (3)

In case b: no error estimate indication is provided for, but an additional

decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to

2 decimal places.

An alphabetical character following the value is the measurement error

estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: (Specific gravity - 1) X 10³

(e.g., ot reported as 2456, reads 24.56, and corresponds to a specific

gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g.,

1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

Phosphate - Phosphorus reported to hundredths of microgram-atoms per (8) PO₄ litre. Total Phosphorus reported to hundredths of microgram-atoms per litre. (9) -P-Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre - No (10) NO, dissolved nitrogen included -Nitrate-Nitrogen reported to tenths of microgram-atoms per litre. $(11) NO_{3}$ Silicate-Silicon reported in whole microgram-atoms per litre. (12) SiO, The pH value. (13) pH NOTE: 'TRC' (trace) is reported when a chemical entry has a value smaller than the standard deviation of measurement for that

INTERPOLATED DATA HEADINGS

(1) DEPTH (2) TEMP (3) SAL (4) OXYGEN (5) SGMT (6) SOUND (7) DELTA-D (8) POT-EN (9) SVA.

particular variable.

Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.

(2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).

(3) SALINITY:

(1) DEPTH:

A. The reported salinity values are observed to three decimal places.

(i) the interpolation error estimate is less than twice the standard deviation of measurement

-the interpolated value is reported to three decimal places (e.g., 30.139).

(ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.

-the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23C).

B. The reported salinity values are observed to two decimal places and followed by the measurement error estimate.

-the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59B).

(4) OXYGEN:

Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record). (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.

(6) SOUND

VELOCITY: Computed from temperature and salinity values at standard oceanographic depth, using Wilson's formula (1960).

(7) DELTA-D: The geo-potential anomaly as defined by:

 $\Delta D = \int_{0}^{P} \delta dp$

 ΔD is expressed in dynamic metres (10⁵ ergs/gram) and recorded to three decimal places (e.g., 2,345 dyn. metres).

(8) POTENTIAL ENERGY ANOMALY:

The Potential energy anomaly χ as defined by:

 $\chi = 1/g \int_0^p p \delta dp = \int_0^z \rho p \delta dz$

 χ is expressed in units of $10^8~\rm ergs/cm^2$ and recorded to two decimal places (e.g., 116.44).

(9) SPECIFIC VOLUME ANOMALY:

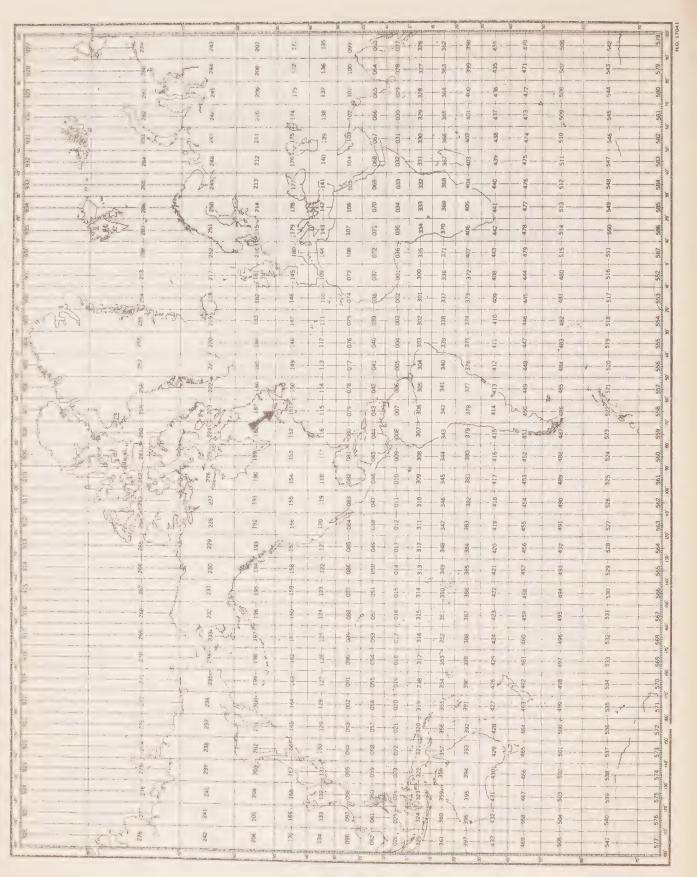
The specific volume anomaly as defined by:

 $\delta = \infty - \infty_{35.0.P}$

 δ is expressed in ml/gr, and conventionally reported as 10⁵ δ , to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

- † (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs
- * (Asterisk): this character may occur in the interpolated portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one observed depth interval. The third, and all consequent levels within that interval are preceded by the asterisk to indicate that more than two machine interpolations were carried out, utilizing the same set of interpolation parabolas.



MARSDEN SQUARE CHART

Table 1

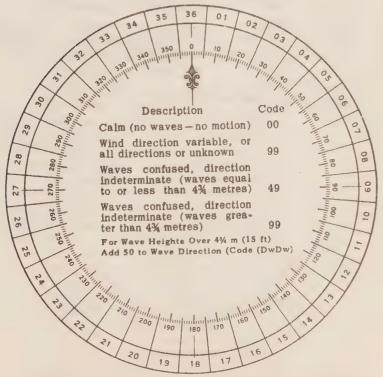
CONVERSION
MINUTES TO 1/40 HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE: Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (Pw)

(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period
7	14 or 15 sec.		not determined

Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: $1 = \frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m (2½ ft); $5 = 2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); $9 = 4\frac{1}{4}$ m (13½ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of 2% m is reported by code figure 5.

Code		Code	
0 Less than ½ m 1 ½ m (1½ ft) 2 1 m (3 ft) 3 1½ m (5 ft) 4 2 m (6½ ft) 5 2½ m (8 ft) 6 3 m (9½ ft) 7 3½ m (11 ft) 8 4 m (13 ft) 9 4½ m (14 ft) x Height not dete	Add 50 to Dw Dw	0 1 2 3 4 5 6 7 8	5 m (16 ft) 5½ m (17½ ft) 6 m (19 ft) 6½ m (21 ft) 7 m (22½ ft) 7½ m (24 ft) 8 m (25½ ft) 8½ m (27 ft) 9 m (29 ft) 9½ m (30½ ft) or more

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests,	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and	Storm
11	shock-like; visibility affected. Exceptionally high waves (medium sized	Storm
11	ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea com- pletely white with driving spray; visibility seriously affected.	Hurricane
	schousty affected,	11411100110

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Co	ode	e figu	re
		AA AA	(
eors	The second second	00	Cloud development not observable characteristic change of the
photometeors	1		or becoming less developed State of sky on the whole State of sky on the whole
ohoto	Proof Page Same	02	unchanged
3,	C	0.3	Clouds generally forming or developing
ರು	Di America	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes
124	100	05	Haze
or smo	CONTRACTOR OF THE PARTY OF THE	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation
t, sand	Demon	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no
03			duststorm or sandstorm seen
Haze, dust, sand or smoke	PARTY CONTRACTOR	80	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm
مالو	CHARLES OF LAND	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the pre-
			ceding hour
		10	Mist
		11 (Patches of shallow fog or ice fog at the station, whether on land or sea, not
		12	More of less deeper than about 2 metres on continuous land or 10 metres at sea
		13	Lightning visible, no thunder heard
		14	Precipitation within sight, not reaching the ground or the surface of the sea
		15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. esti- mated to be more than 5 km) from the station
		16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station
		17	Thunderstorm, but no precepitation at the time of observation
		18	Squalls) at or within sight of the sta-
		19	Funnel clouds from tion during the preceding hour or at the time of observation

ww = 20 -	29	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation
	20	Drizzle (not freezing) or snow grains
	21	Rain (not freezing)
	22	Snow not falling as shower(s)
	23	Rain and snow or ice pellets, type (a)
	24	Freezing drizzle or freezing rain
	25	Shower(s) of rain
	26	Shower(s) of snow, or of rain and snow
	27	Shower(s) of hail, or of rain and hail
	28	Fog or ice fog
20	29	Thunderstorm (with or without precipitation) Duststorm, sandstorm, drifting or blowing snow
ww = 30 -	30 \	/ - has decreased during the
	30	Slight or mo-
	31	derate dust- \ - no appreciable change during
		storm or sand- the preceding hour
	32 /	storm - has begun or has increased during the preceding hour
	33 \	/ - has decreased during the
	34	Severe dust- storm or sand- storm or sand-
	0.5	storm ring the preceding hour -has begun or has increased
	35	during the preceding hour
	36	Slight or moderate blowing snow generally low (below eye blowing snow level)
	37	Heavy drifting snow /
	38	Slight or moderate blowing snow generally high (above eye level)
	39	Heavy blowing snow
ww = 40 -	49	Fog or ice fog at the time of observation
	40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer
	41	Fog or ice fog in patches
	42	Fog or ice fog, sky visible has become thinner during
	43	Fog or ice fog, sky the preceding hour invisible
	44	Fog or ice fog, sky one appreciable change
	45	Fog or ice fog, sky during the preceding hour invisible
	46	Fog or ice fog, sky) has begun or has become visible thicker during the prece-
	47	Fog or ice fog, sky ding hour invisible
	48	Fog, depositing rime, sky visible
	49	Fog, depositing rime, sky invisible

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59	Drizzle	ww = 80 - 99	Showery p
50	Drizzle, not freez-)	80	Rain shows
	ing, intermittent slight at time of observa-	81	Rain show
51	Drizzle, not freez- (tion	82	Rain shows
52	ong, continuous Drizzle, not freez-	83	Shower(s)
52	ing, intermittent moderate at time of ob-	84	Shower(s)
53	Drizzle, not freez- servation		heavy
	ing, continuous	85	Snow show
54	Drizzle, not freez-	86	Snow show
	ing, intermittent (heavy (dense) at time of Drizzle, not freez- (observation	87	Shower(s) lets or ice
55	Drizzle, not freez-		(b), with o
56	Drizzle, freezing, slight	88	or rain and
57	Drizzle, freezing, moderate or heavy (dense)	89	
58	Drizzle and rain, slight		without rai
59	Drizzle and rain, moderate or heavy	90	ated with the
ww = 60 - 69	Rain	91	
60	Rain, not freezing,)	0.0	servation
	intermittent slight at time of observa-	92	Moderate or time of obs
61	Rain, not freezing, tion	93	Slight snow
62	Continuous ,		snow mixe
02	Rain, not freezing, moderate at time of ob-	0.4	time of obs
63	Rain, not freezing, (servation	94	Moderate or or rain and
	continuous		or hail at t
64	Rain, not freezing, intermittent heavy at time of observa-	95	vation
65	Rain, not freezing, (tion	93	Thundersto moderate.
00	continuous		but with
66	Rain, freezing, slight		snow at tim
67	Rain, freezing, moderate or heavy	96	Thundersto
68	Rain or drizzle and snow, slight		moderate,
69	Rain or drizzle and snow, moderate or heavy		time of obs
70 - 79	Solid precipitation not in showers	97	Thundersto
ww	Don't product to the state of t		without he rain and for
70	Intermittent fall of snow)		of observat
***	flakes (slight at time of ob-	98	Thundersto
71	Continuous fall of snow (servation		with dusts
	flakes		vation
72	Intermittent fall of snow moderate at time of	99	Thundersto
73	Continuous fall of snow observation		with hail
13	flakes		servation
74	Intermittent fall of snow)		
	flakes [heavy at time of ob-		
75	Continuous fall of snow servation flakes		
76	Ice prisms (with or without fog)		
77	Snow grains (with or without fog)		
78	Isolated starlike snow crystals (with or without		
	fog)		
79	Ice pellets, type (a)		

80 —	99	Showery precipitation, or precipitation with current or recent thunderstorm
	80	Rain shower(s), slight
	81	Rain shower(s), moderate or heavy
	82	Rain shower(s), violent
	83	Shower(s) of rain and snow mixed, slight
	84	Shower(s) of rain and snow mixed, moderate or heavy
	85	Snow shower(s), slight
	86	Snow shower(s), moderate or heavy
	- {	Shower(s) of snow pellets or ice pellets, type (b), with or without rain (
		or rain and snow mixed) - moderate or heavy
	\	Shower(s) of hail, with or — slight without rain or rain and (snow mixed, not associ-
	90	ated with thunder - moderate or heavy
	91	Slight rain at time of ob-
	92	Moderate or heavy rain at thunderstorm during thunderstorm
	93	Slight snow, or rain and snow mixed or hail at but not at time of obtime of observation the preceding hour but not at time of observation
		Moderate or heavy snow, or rain and snow mixed or hail at time of observation
		Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation
	96	Thunderstorm, slight or moderate, with hail at time of observation
	97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation
	98	Thunderstorm, combined with duststorm or sandstorm at time of observation
	99	Thunderstorm, heavy, with hail at time of observation

Table 8. CLOUD TYPE CODE

	Cloud Type		Cloud Type
0 1 2 3 4	Cirrus Ci Cirrocumulus Cc Cirrostratus Cs Altocumulus Ac Altostratus As	5 6 7 8 9	Nimbostratus Ns Stratocumulus Sc Stratus St Cumulus Cu Cumulonimbus Cb
Х	Cloud not visible owing to or other analogous phenomen		s, fog, duststorm, sendstorm,

Table 9. CLOUD AMOUNT CODE

ALTERNATION STATES AND	terbitantal vita augustema for var var var var var var var var var va	Control of the same and the same of	
Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less,	7	7 oktas or more,
	but not zero		but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or
4	4 oktas		cloud amount cannot
5	5 oktas		be estimated

Note: 1 okta = 1/8 of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor, Visibility	
90 91 92 93 94 95 96 97 98	Less than 50 metres (less than 55 yards) 50-200 metres (approx. 55-220 yards) 500-1,000 metres (approx. 550 yards-56 n.m.) 1-2 km (approx. 550 yards-56 n.m.) 2-4 km (approx. 1-2 n.m.) 4-10 km (approx. 2-6 n.m.) 10-20 km (approx. 2-6 n.m.) (approx. 12-30 n.m.) 50 km or more (30 n.m. or more)	

Note: n.m. = nautical mile

GENERAL INFORMATION

Institute: Atlantic Oceanographic Group

Observation platform: C.N.A.V. "Sackville"

Vessel's cruising speed: 12 knots

Total number of stations occupied: 148

Anemometer height above sea level: 11 metres

Barometer readings were obtained using an Aneroid

Barometer and were corrected

prior to recording

Air temperature was observed from a Sling

Psychrometer

Wet bulb temperature was observed from a Sling

Psychrometer

Surface Sea water temperature was obtained from a bucket

sample using a hand-held

thermometer

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature 0.02

Salinity 0.003



SECTION III

Serial oceanographic data



C-REF-NO 005	YR 1963	DEPTH	27	WAVES 1 34X0	AIR T 14.6	SIV
CONS. NO 001	MONTH 6	MXSAMPD	0.0	WAVES 2 00X0	WET B 13.5	STN
LAT 48-572N	DAY 27	NO.DPTH	4	WND-DIR 340	MM-CODE 05	2
LON 64-179W	HR 08.3	W-COLOR		WND-SPD 01	CLD-TPE)	<
MARSD SQ 151		W-TRNSP		BARO 1002.0	CLD-AMT 2	2 HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
083	0000	108 B	27149	2074	14834
083	0008	1014 8	27383	2102	14813
083	0018	0867	28141	2183	14769
083	0023	0870	28191	2187	14772

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020	1080 B 0979 D 0883 F	2755 I	2121	14834 14803 14775	0000 0068 0132	00000 00003 00013	7040 6591 6058

C-REE-NO 005	YR 1963	DEPTH	77	WAVES 1 30X1	AIR T	13.9	VIS
CONS. NO 002			01	WAVES 2 00X0	WET B	13.0	STN
LAT 48-578N			6	WND-DIR 300	WW-CODE	02	
LUN 64-161W	HR 08.8	W-COLOR		WND-SPD 06	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO 1002.0	CLD-AMT	2	HW

DBSERVED

GMT	DEPTH	TEMP	S A L OXY	GEN SGMT	SOUND
088	0000	102 B	27360	2100	14814
C88	0010	0939	27575	2129	14788
088	0019	0849	28478	2212	14767
880	0028	0598 B	29063	2290	14676
088	0048	0241 B	31336	2504	14558
880	0067	-0028 B	32089	2579	14451

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1020 B	27360	2100	14814	0000	00000	6791
0010	0939	27575	2129	14788	0067	00003	6513
0020	0824 B	2854 C	2221	14758	0128	00012	5633
0030	0554 B	2929 I	2313	14662	0180	00026	4752
0050	0180 I	3106 I	2486	14528	0259	00056	3098

C-REF-NO 005	YR 1963	DEPTH	155	WAVES 1 31X2	AIR T	13.0	VIS
CONS. NO 003	MONTH 6	MXSAMPD	01	WAVES 2 00X0	WET B 1	12.2	STN
LAT 48-581N	DAY 27	NO.DPTH	11	WND-DIR 310	WW-CODE	03	
LON 64-142W	HR 09.6	W-COLOR		WND-SPD 06	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO 1002.0	CLD-AMT	3	HW

GMT	DEPTH	TEMF	Р	SAL	OXYGEN	SGMT	SOUND
096	0000	100	В	27458		2110	14808
096	0006	0983		27479		2115	14803
096	0013	0980	>	28066		2161	14810
096	0019	0786	В	28850		2250	14747
096	0032	0384	В	29936		2380	14599
096	0048	0283 [D	31595		2521	14580
096	0064	-0020	С	32088		2579	14454
096	0080	-0080	В	32359		2603	14432
096	0096	-0024		32695		2628	14466
096	0113	0144	D	32968		2641	14549
096	0122	0129		33290		2668	14548

DEPTH	TEMP	S A L OXYGEN	SGMT.	SOUND	DELTA-D	POT.EN	SVA
0000	1000 В	27458	2110	14808	0000	00000	6688
0010	0995 E	2776 D	2134	14811	0066	00003	6460
0020	0750 C	2894 D	2262	14734	0125	00012	5238
0030	0436 G	2979 H	2364	14619	0172	00024	4264
0050	0244 E	3170 F	2532	14565	0242	00051	2664
0075	-0081 C	3228 D	2597	14430	0301	88000	2040
0100	C022 F	3274 E	2630	14488	0348	00130	1730

C-REF-NO 005	YR 1963	DEPTH	274	WAVES 1 31X3	AIR T	12.2	VIS
CONS. NO 004	MONTH 6	MXSAMPC	02	WAVES 2 00X0	WET B	11.8	STN
IAT 49-002N	DAY 27	NO.DPTH	14	WND-DIR 310	WW-CODE	01	
10N 64-125W				WND-SPD · 07			
MARSD SQ 151				BARO 1003.0	CLD-AMT	2	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
116 116 116	0000 0010 0018 0026	090 B 0882 0658 H 0406	28860 28835 28811 29683	2235 2235 2263 2358	14788 14783 14696 14604
116	0041	0323 9	30918	2464	14587
	0061	-0016	31966	2569	14453
116	0080	-0076 B	32323	2600	14434
116	0099	0034	32660	2623	14492
116	0118	0023	32922	2644	14494
116	0139	0130 C	33273	2666	14551
116	0156	0226 B	33596	2685	14600
116	0177	0282 B	33776	2695	14631
116	0192	0366 D	34063	2710	14673
116	0225	0415	34270	2721	14702

DEPTH	TEM	P	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0900	8	28860	2235	14788	0000	00000	5499
0010	0882		28835	2235	14783	0055	00003	5494
0020	0590	G	2899 I	2285	14671	0108	00011	5015
0030	0366	I	3006 B	2392	14593	0153	00022	4000
0050	0169	I	31475	2520	14529	0221	00049	2780
0075	-0081	8	3226 G	2595	14430	0282	00087	2057
0100	0034		32674	2624	14492	0331	00129	1788
0125	0051	C	33032	2652	14509	0372	00177	1524
0150	0194	В	3349 C	2679	14584	0407	00226	1271
0175	0277	В	3376 C	2694	14628	0438	00277	1135
0200	0365	G	3407 I	2710	14674	0465	00328	0987
0225	0415		34270	2721	14702	0488	00379	0887

C-REF-NO 005	YR 1963	DEPTH	326	WAVES 1 31X3	AIR T	12.2	VIS
CONS. NO 005	MONTH 6	MXSAMPD	03	WAVES 2 00X0	WET B	11.7	STN
LAT 49-036N	DAY 27	NO.DPTH	15	WND-DIR 310	WW-CODE	01	
LON 64-059W	HR 13.0	W-COLOR		WND-SPD 07	CLD-TPE		
MARSD SQ 151		W-TRNSP		BARO 1004.0	CLD-AMT	0	HW

GMT	DEPTH	TEM	Ρ	SAL	OXYGEN	SGMT	SOUND
130	0000	108	В	29525		2258	14863
130	0009	1096		29524		2255	14871
130	0019	0353		30144		2400	14586
130	0028	0335		31212		2486	14594
130	0047	0016		31988		2569	14466
130	0070	-0082		32224		2592	14428
130	0094	-0034	В	32646		2625	14460
130	0117	0049		33006		2650	14507
130	0143	0167	В	33397		2674	14570
130	0164	0249	В	33663		2688	14613
130	0190	0324		33939		2704	14653
130	0211	0379	В	34131		2714	14683
130	0235	0418		34280		2722	14705
130	0282	0467		34555		2738	14737
130	0309	0473		34643		2744	14745

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1080 B	29525	2258	14863	0000	00000	5276
0010	1023 I	29558	2270	14844	0052	00003	5163
0020	0338 F	3026 E	2410	14582	0097	00009	3821
0030	0305 E	3135 H	2500	14584	0132	00018	2969
0050	-C010 B	3204 F	2574	14455	0184	00039	2257
0075	-0080 B	3231 B	2599	14431	0238	00073	2022
0100	-0015 B	32743	2631	14471	0285	00114	1713
0125	0085	33131	2658	14526	0325	00160	1469
0150	0196 B	33490	2679	14585	0360	00209	1272
0175	0283 8	33786	2695	14631	0390	00259	1120
0200	0352	34036	2709	14668	0416	00310	0997
0225	0404	34223	2719	14697	0441	00362	0910
0250	0438	3438 B	2727	14717	0462	00415	0833
0300	0472	34612	2742	14743	0501	00524	0701

C-REF-NO 005	YR 1963	DEPTH 375	WAVES 1 28X2	AIR T 14	.O VIS
CONS. NO 006	MONTH: 6	MXSAMPD 04	WAVES 2 00X0	WET B 13	.O STN
LAT 49-100N	DAY 27	NO.DPTH 16	WND-DIR 280	WW-CODE	01
LON 63-570W	HR 15.1	W-COLOR	WND-SPD 07	CLD-TPE	
MARSD SQ 151		W-TRNSP	BARO 1003.0	CLD-AMT	O HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
GMF 151 151 151 151 151 151 151	DEPTH 0000 0010 0020 0030 0050 0075 0100 0125 0150	T E M 112 1095 0336 0143 -0012 -0079 -0017 0036 0139	В В	29092 29091 31291 31813 32051 32313 32733 33012 33326	OXYGEN	2218 2222 2492 2548 2576 2599 2631 2651 2670	14872 14865 14595 14519 14455 14431 14470 14502
151 151 151 151 151 151	0175 0200 0225 0250 0300 0350 0370	0241 0317 0396 0436 0473 0477	8 C B	33622 33926 34186 34376 34618 34728 34723		2686 2704 2717 2727 2742 2751 2750	14611 14652 14693 14716 14743 14755 14758

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	29092		2218	14872	0000	00000	5662
0010	1095 0336	29091 31291		2222	14865	005 7 0100	00003	5624 3041
0030	0143	31813		2548	14519	0128	00016	2506
0050	-0012	32051		2576	14455	0176	00035	2245
0075	-0079 -0017 B	32313 32733		2599	14431	0229	00069	2018
0125	0036	33012		2631 2651	14470 14502	0276 0317	00111	1719
0150	0139 B	33326		2670	14557	0354	00209	1355
0175	0241	33622		2686	14610	0386	00263	1208
0200	0317 B 0396 C	33926		2704	14652	0415	00317	1046
0250	0436 B	34186 34376		2717	14693	0439 0462	00371	0930
0300	0473	34618		2742	14743	0500	00425	0832 0697

C-REF-NO 005	YR 1963	DEPTH	320	WAVES 1 27X2	AIR T	15.2	VIS
CONS. NO 007	MONTH 6	MXSAMPO	03	WAVES 2 00X0	WET B	14.6	STN
LAT 49-171N	DAY 27	NO. DPTH	15	WND-DIR 270	WW-CODE	02	
LON 63-463W	HR 16.8	W-COLOR		WND-SPD 05	CLD-TPE		
MARSD SQ 151		W-TRNSP		BARO 1001.5	CLD-AMT	0	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
168	0000	127	8	29151		2195	14926
168	0010	0885		29782		2309	14796
168	0020	0360		31070		2473	14602
168	0030	0152		31640		2534	14520
168	0050	0021		32030		2572	14470
168	0075	-0073		32232		2593	14433
168	0100	-0037	В	32635		2624	14459
168	0124	0012		32941		2646	14490
168	0148	0142		33330		2670	14558
168	0174	0260	8	33701		2691	14620
168	0196	0323		33947		2705	14654
168	0224	0446		34405		2729	14717
168	0247	0446	С	34411		2729	14721
168	0298	0464		34562		2739	14738
168	0310	0467		34585		2.741	14742

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1270 B	29151	2195	14926	0000	00000	5875
0010	0885	29782	2309	14796	0054	00002	4792
0020	0360	31070	2473	14602	0094	80000	3228
0030	0152	31640	2534	14520	0123	00016	2643
0050	0021	32030	2572	14470	0173	00036	2275
0075	-0073	32232	2593	14433	0228	00070	2082
0100	-0037 B	32635	2624	14459	0276	00114	1786
0125	0017	32957	2647	14493	0318	00162	1564
0150	0152	33361	2672	14564	0355	00213	1338
0175	C263 B	33712	2691	14621	0387	00265	1159
0200	0343 8	3402 E	2709	14664	0414	00317	0998
0225	0447	34408	2729	14717	0437	00367	0817
0250	0447 C	34418	2730	14721	0457	00417	0812
0300	0463	3455 C	2739	14738	0496	00527	0734

C-REF-NO 005	YR 1963	DEPTH	256	WAVES 1 27X2	AIR T	15.6	VIS
CONS. NO 008	MONTH 6	MXSAMPE	02	WAVES 2 00X0	WET B	14.9	STN
LAT 49-196N	DAY 27	NO.DPTH	13	WND-DIR 270	WW-CODE	02	
LON 63-422W	HR 17.8	W-COLOR		WND-SPD 05	CLD-TPE		
MARSD SQ 151		W-TRNSP		BARO 1001.0	C LD-AMT	0	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
1.78	0000	124	В	29338		2215	14918
178	0010	0584		30896		2436	14692
178	0019	0262		31384		2506	14564
178	0029	0098		31904		2558	14499
178	0049	-0006		32060		2576	14457
178	0073	-0068		32260		2595	14435
178	0097	-0040	B	32641		2624	14458
178	0122	-0047		32880		2644	14462
178	0145	0122		33263		2666	14548
178	0170	0196	В	33475		2678	14588
178	0193	0268		33729		2692	14627
178	0219	0377	В	34116		2713	14683
178	0242	0446	В	34437		2731	14720

DEPTH	T E M	Þ	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1240	В	29338		2215	14918	0000	00000	5684
0010	0584		30896		2436	14692	0046	00002	3579
0020	0239		3144 B		2512	14555	0079	00007	2851
0030	0089		3193 C		2561	14496	0105	00013	2389
0050	-0010		32066		2577	14456	0152	00032	2234
0075	-0067		3229 B		2597	14437	0205	00066	2039
0100	-C045	C	3267 B		2627	14456	0253	00109	1756
0125	-0027	C	3293 B		2647	14472	0295	00157	1563
0150	0141	В	3331 C		2668	14558	0332	00208	1368
0175	0211	8	33524		2680	14596	0365	00263	1258
0200	C298		3383 B		2698	14642	0395	00320	1102
0225	0388	C	3418 D		2717	14690	0420	00376	0925

C-REF-NO 005	YR 1963	DEPTH	73	WAVES 1 22X1	AIR T	14.2	VIS
CONS. NO 009	MONTH 6	MXSAMPD	01	WAVES 2 00X0	WET B	13.8	STN
LAT 49-222N	DAY 27	NO.DPTH	6	WND-DIR 220	WW-CODE	02	
LON 63-380W	HR 19.0	W-COLOR		WND-SPD ' 02	CLD-TPE		
MARSD SQ 151		W-TRNSP		BARO 1000.0	CLD-AMT	0	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
190	0000*	071	В	30892		2420	14741
190	0010		8	31501	F	2507	14606
190	0020	0200		31874		2549	14543
190	0030	0062		32243		2588	14488
190	0050	0038	5	32431		2604	14483
190	0070	0034	8	32679		2624	14488

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0710 B	30892		2420	14741	0000	00000	3730
0010	0359 B	31501		2507	14606	0033	00001	2902
0020	0200	31874		2549	14543	0060	00006	2497
0030	0062	32243		2588	14488	0084	00011	2133
0050	C038	32431		2604	14483	0125	00028	1977

C-REF-NO 005	YR 1963	DEPTH	26	WAVES 1 32X1	AIR T 1	16.7	VIS
CONS. NO 010	MONTH 6	MXSAMPC	00	WAVES 2 00X0	WET B 1	14.8	STN
LAT 49-227N	DAY 27	NO.DPTH	3	WND-DIR 320	WW-CODE	02	
LON 63-365W	HR 19.4	W-COLOR		WND-SPD 02	CLD-TPE		
MARSD SQ 151		W-TRNSP		BARO 1000.0	C LD-AMT	0	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
194	0000	083 В	30748		2392	14786
194	0010	0661 B	31810		2498	14735
194	0020	0072	32302		2592	14492

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0830 B	30748		2392	14786	0000	00000	3995
0010	0661 B	31810		2498	14735	0035	00002	2984
0020	0072	32302		2592	14492	0061	00005	2094

C-REF-NO 005	YR 1963	DEPTH	377	WAVES 1 30X3	AIR T 1	4.5	VIS
CONS. NO 011	MUNTH 6	MXSAMPD	03	WAVES 2 00X0	WET B 1	13.3	STN
LAT 49-228N	DAY 27	NO. DPTH	16	WND-DIR 300	WW-CODE	03	
LON 64-364W	HR 23.8	W-COLOR		WND-SPD 07	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO 1000.0	CLD-AMT	2	HW

GMT	DEPTH	TEMP	SALO	XYGEN	SGMT	SOUND
‡243	0000	112 B	29100		2218	14872
‡243	8000	1097	29073		2220	14865
#243	0016	0694	29001		2274	14712
‡243	0024	0469	29712		2355	14631
‡243	0040	0272	31167		2488	14568
‡243	0060	-0026 B	32143		2584	14451
‡243	0080	-0056	32266		2595	14442
‡243	0100	-0050	32516		2615	14452
‡243	0116	0026	32879		2641	14494
238	0136	0102 C	33166		2659	14536
238	0157	0197	33508		2680	14587
238	0177	0264 B	33715		2691	14622
238	0194	0324	33931		2703	14654
238	0230	0406	34279		2723	14699
238	0270	0451	34486		2734	14727
238	0282	0466	34574	0.5	2740	14737

*MULTIPLE CAST CONTINUED NEXT DAY

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 0	29100	2218	14872	0000	00000	5656
0000	1120 B	29100 2902 I	2231	14831	0056	00003	5536
0010	1006 I	2931 I	2313	14665	0108	00011	4754
0020	0565 8		2409	14601	0151	00021	3833
0030	0378 G	3029 H		14506	0215	00021	2522
0050	0110 G	31767	2547		0 11. 11 2	00048	2057
0075	-0063 D	3227 I	2595	14438	0272		
0100	-0050	32516	2615	14452	0322	00126	1871
0125	0061 B	3302 C	2650	14514	0365	00175	1541
0150	0166 B	3340 B	2674	14570	0401	00226	1319
0175	0258 B	33696	2690	14619	0432	00278	1166
0200	0341	33999	2707	14663	0460	00330	1014
0225	0398	34240	2721	14694	0484	00383	0891
0250	0431 B	3439 E	2729	14714	0505	00435	0819

C-REF-NO 005	YR 1963	DEPTH	355	WAVES 1 29X3	AIR T	14.4	VIS
CONS. NO 012				WAVES 2 00X0			STN
LAT 49-164N	DAY 28	NO.DPTH	7	WND-DIR 290	WW-CODE	02	
LON 64-424W	HR 01.5	W-COLOR		WND-SPD 05	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO 1004.0	CLD-AMT	2	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
015	0000	109 8	27005	2061	14835
015	0007	1083	26991	2061	14834
015	0015	1052	27112	2075	14825
015	0022	0942	27789	2145	14794
015	0037	0394 €	29360	2334	14596
015	0055	0306 D	31272	2493	14587
015	0073	0046	31889	2560	14483

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1090 B	27005	2061	14835	0000	00000	7162
0010	1079 B	2699 G	2062	14833	0072	00004	7160
0020	0982	2757 F	2122	14806	0141	00014	6583
0030	C649 I	2862 B	2249 .	14692	0200	00029	5366
0050	0308 I	3080 I	2456	14581	0288	00063	3387

C-REF-NO 005	YR 1963	DEPTH	229	WAVES 1 31X3	AIR T 13.	O VIS
CONS. NO 013	MONTH 6	MXSAMPD	02	WAVES 2 00X0	WET B 11.	O STN
LAT 49-120N	DAY 28	NO.DPTH	12	WND-DIR 310	WW-CODE ()2
LON 64-454W	HR 02.7	W-COLOR		WND-SPD 05	CLD-TPE	X
MARSD SQ 151		W-TRNSP		BARO 1007.0	CLD-AMT	9 HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT SOUND
027	0000	112 B	26945	2051 14845
027	0009	1122	26938	2051 14848
027	0019	1097	27046	2063 14841
027	0029	0962	27879	2149 14804
027	0047	0374	30565	2431 14606
027	0070	-0066 B	32301	2598 14436
027	0093	-0012	32778	2634 14472
027	0117	0057	33051	2653 14511
027	0138	0204 B	33505	2679 14587
027	0163	0298 C	33849	2699 14636
027	0190	0336	33994	2707 14659
027	0220	0415	34316	2725 14702

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	26945	2051	14845	0000	00000 .	7254
0010	1123	2693 C	2050	14848	0073	00004	7271
0020	1089	271C B	2069	14839	0145	00015	7091
0030	0932 C	2802 H	2165	14795	0211	00031	6172
0050	0293 B	3088 D	2463	14575	0306	00067	3317
0075	-0076 G	3247 I	2612	14435	0372	00107	1901
0100	0002 B	3286 F	2640	14480	0416	00146	1634
0125	0112 C	3322 E	2663	14540	0455	00190	1417
0150	0258 B	33696	2690	14615	0487	C0236	1165
0175	0317 C	3392 E	2703	14647	0515	00282	1050
0200	0376 E	3415 I	2716	14680	0540	00330	0934

C-REF-NO 005	YR 1963	DEPTH	104	WAVES 1 32X3	AIR T	12.0	VIS
CONS. NO 014	MONTH 6	MXSAMPC	01	WAVES 2 00X0	WET B	10.5	STN
LAT 49-103N	DAY 28	NO.DPTH	6	WND-DIR 320	WW-CODE	02	
LON 64-454W	HR 03.8	W-COLOR		WND-SPD 07	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1008.0	CLD-AMT	9	HW

G	MT	DEPTH T	EMI	Р	SAL	OXYGEN	SGMT	SOUND
0.	38	0000	116	В	26947		2045	14860
0.	38	0005	1166		26935		2043	14863
0	38	0014	1166		26938		2043	14864
0:	38	0042	0452 (C	30051		2383	14631
0	38	0066	C006 (C	32356		2599	14470
0.	38	0089	0002		32673		2625	14476

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	26947	2045	14860	0000	00000	7318
0010	1174 B	2691 F	2039	14866	0074	00004	7373
0020	1050 I	2743 I	2100	14829	0144	00014	6789
0030	0811 1	2846 I	2216	14754	0207	00030	5683
0050	0270 F	3095 I	2471	14566	0297	00064	3247
0075	0003 I	3243 I	2606	14471	0362	00104	1958

C-REF-NO 005	YR 1963	DEPTH	37	WAVES 1 32X2	AIR T	12.0	VIS
CONS. NO 015	MONTH 6	MXSAMPD	0.0	WAVES 2 00X0	WET B	10.5	STM
LAT 49-103N	DAY 28	NO.DPTH	4	WND-DIR · 320	WW-CODE	02	
LON 64-463W	HR 04.2	W-COLOR		WND-SPD · 07	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1008.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
042	0000	120 B	26605	2012	14870
042	0010	1208	26583	2009	14874
042	0020	1162	26722	2027	14861
042	0029	104C B	27433	2102	14827

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	26605		2012	14870	0000	00000	7638
0010	1208	26583		2009	14874	0077	00004	7669
0020	1162	26722		2027	14861	0152	00015	7491

C-REF-NO 005	YR 1963	DEPTH .	55	WAVES 1	36X2	AIR T	11.4	VIS
CONS. NO 016	MONTH 6	MXSAMPD	0.0	WAVES 2	00X0	WET B	09.6	STN
LAT 49-159N	DAY 28	NO.DPTH	5	WND-DIR	360	WW-CODE	02	
LON 65-3COW	HR 07.7	W-COLUR		WND-SPD	07	CLD-TPE	6	
MARSO SQ 151		W-TRNSP		BARO		CLD-AMT	1	HW

GMT	DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND
077	0000	115 B	26139	1984	14846
077	0010	1164	26186	1985	14854
077	0020	0846	27248	2117	14750
077	0030	0657 B	27877	2190	14685
077	0050	0014	32087	2577	14467

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030 0050	1150 B 1164 0846 0657 B 0014	26139 26186 27248 27877 32087		1984 1985 2117 2190 2577	14846 14853 14750 14685	0000 0079 0152 0215	00000 00004 00015 00031	7901 7890 6631 5929

C-REF-NO 005	YR 1963	DEPTH	113	WAVES 1	32X2	AIR T	10.9	VIS
CONS. NO 017	MONTH 6	MXSAMPC	01	WAVES 2	00X0	WET B	09.4	STN
LAT 49-167N	DAY 28	NO.DPTH	7	WND-DIR	320	WW-CODE	02	
LON 65-286W	HR 08.2	W-COLOR		WND-SPD	05	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO		CLD-AMT	1	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
082	0000	117 B	26028		1972	14852
082	0010	1186	26055		1972	14860
082	0018	0922 C	27946		2160	14788
082	0025	0658	27886		2190	14685
082	0041	0152 B	31498		2523	14520
082	0060	-0008	32136		2582	14459
082	0079	-0056 C	32449		2609	14445

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	26028		1972	14852	. 0000	00000	8016
0010	1186	26055		1972	14860	0800	00004	8024
0020	0847 C	2796 I		2172	14759	0151	00014	6100
0030	0474 D	2889 I		2289	14623	0207	00028	4981
0050	CO39 H	3207 I		2575	14478	0279	00055	2255
0075	-0082 F	3268 I		2629	14435	0330	00087.	1738

C-REF-NO 005	YR 1963	DEPTH	192	WAVES 1 49X1	AIR T	10.9	VIS
CONS. NO 018	MONTH 6	MXSAMPD	01	WAVES 2 00X0	WET B	09.5	STN
LAT 49-183N	DAY 28	NO. DPTH	10	WND-DIR	WW-CODE	02	
LUN 65-288W	HR 09.1	W-COLOR		11110 0.0	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO	CLD-AMT	1	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
091	0000	104	8	26699		2045	14813
091	0007	1026	C	26853		2060	14811
091	0014	0590	E	28435		2241	14662
091	0020	0546		28423		2246	14643
091	0034	0380	0	30116		2395	14600
091	0051	0100	B	31772		2548	14502
091	0068	-0037	C	32136		2584	14447
091	0085	-0076		32385		2605	14435
091	0102	-0015		32695		2628	14471
091	0120	0102		33150		2658	14533

DEPTH	TEM	Р	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1040	8	26699	2045	14813	0000	00000	7313
0010	0840	I	2755 I	2141	14750	0069	00003	6397
0020	0540		28423	2246	14643	0128	00012	5393
0030	0432	C	2953 I	2343	14614	0177	00024	4460
0050	0116	8	3170 C	2541	14508	0248	00051	2577
0075	-0065	C	3224 C	2593	14437	0306	88000	2077
0100	-0026		32654	2625	14465	0355	00131	1776

C-REF-NO 005	YR 1963	DEPTH	344	WAVES 1	34X2	AIR T	10.9	VIS
CONS. NO 019	MONTH 6	MXSAMPD	03	WAVES 2	00X0	WET B	09.2	STN
LAT 49-238N	CAY 28	NO.DPTH	16	WND-DIR	340	WW-CODE	02	
LON 65-306W	HR 10.6	W-COLOR		WND-SPD	07	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO		CLD-AMT	1	HW

GMT	DEPTH	TEM	Р	S A L OXYGEN	SGMT	SOUND
106	0000	108	8	30048	2298	14870
106 106	0010	1105 0424		30026 31057	2293 2466	14880
106 106	0029	0156		31710	2539 2594	14523
106	0070 0093	-0037 0032	c	32588	2620	14454
106	0117	0130	C	32908 33263	2643 2665	14494
106 106	0140 0164	0229	8	33608 338 7 6	2686 2700	14599
106 106	0186	0366	E	34080	2711	14672
106	0233	0439	8	34403	2729	14715
106	0256 0280	0453 0464	В	34511 34586	2736 2741	14726 14736
106	0305	0473		34665	2746	14745

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1080 B	30048		2298	14870	0000	00000	4888
0010	1105	30026		2293	14880	0049	00003	4947
0020	0383 C	3114 8		2476	14613	0090	80000	3196
0030	0136	3175 B		2544	14515	0119	00016	2547
0050	-0076 C	3230 B	•	2598	14428	0165	00034	2028
0075	-0025	32658		2625	14461	0213	00064	1775
0100	0059 B	33010		2649	14509	0255	00101	1546
0125	0165	33388		2673	14566	0291	00143	1326
0150	0264	33728		2692	14618	0322	00186	1146
0175	0339 C	33982		2706	14658	0350	00232	1023
0200	0393 B	34197		2718	14688	0374	00279	0916
0225	0430 B	34361		2727	14710	0396	00327	0834
0250	0450 B	34486		2735	14724	0416	00376	0765
0300	0472	34652		2745	14743	0452	00477	0670

C-REF-NO 005	YR 1963	DEPTH	335	WAVES 1 36X1	AIR T	09.7	VIS
CONS. NO 020	MONTH 6	MXSAMPC	0.3	WAVES 2 00X0	WET B	0.80	STN
LAT 49-290N	DAY 28	NO.DPTH	15	WND-DIR 360	WW-CODE	02	
LON 65-297W	HR 11.9	W-COLOR		WND-SPD 06	CLD-TPE	6	
MARSD SQ 151		W-TRNSP		BARO 1015.0	CLD-AMT	2	HW

GMT	DEPTH	T E M	ρ	SAL	OXYGEN	SGMT	SOUND
119 119 119 119	0000 0009 0018 0027 0045	095 0962 0124 0020 -0052	8	30291 30267 31849 32102 32396		2338 2335 2552 2578 2605	14825 14831 14509 14466 14440
119 119 119	0068 0091 0113 0135	-0028 0069 0183 0268	В	32660 33055 33458 33745		2625 2652 2677	14459 14512 14573
119 119 119	0159 0182 0203	0338 0377 0409	C	33979 34157 34264		2693 2706 2716 2721	14617 14655 14677 14696
119 119 119	0225 0272 0298	0444 0468 0473	0	34409 34602 34693		2729 2742 2748	14716 14736 14744

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0950 B	30291	2338	14825	0000	00000	4506
0010	0872 I	3044 I	2362	14799	0044	00002	4287
0020	0067 1	3197 I	2565	14485	0077	00007	2348
0030	-0001 B	3216 B	2584	14458	0100	00013	2164
0050	-0055	3245 C	2610	14440	0141	00029	1920
0075	-0004	32772	2633	14473	0187	00058	1697
0100	0116 B	3323 B	2663	14537	0226	00093	1416
0125	0232	33626	2687	14599	0259	00130	1196
0150	0315 B	33899	2702	14642	0287	00170	1062
0175	0367	34109	2713	14671	0313	00213	0955
0200	0404 B	34249	2721	14693	0336	00257	0889
0225	0444 D	34409	2729	14716	0358	00304	0813
0250	0462 C	3452 B	2736	14729	0377	00352	0750
0300	0472	34698	2749	14744	0412	00450	0637

C-REF-NO 005	YR 1963	DEPTH	. 79	WAVES 1 36X2	AIR T	10.1	VIS
CONS. NO 021	MONTH 6	MXSAMPD	01	WAVES 2 00X0	WET B	08.5	STN
LAT 49-135N	DAY 28	NO.DPTH	5	WND-DIR 040	WW-CODE	02	
LON 66-095W	HR 15.2	W-COLOR		WND-SPD 04	CLD-TPE	8	
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	1	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
152	0000	116 B	25815		1957	14846
152	0010	0542	27952		2208	14636
152	0020	0352	29104		2317	14572
152	0030	0284 B	29781		2376	14553
152	0060	-0078	32243		2594	14428

DEPTH	TEMP	SAL	OXYGEN	SGMT	SDUND	DELTA-D	POT.EN	SVA
0000	1160 B	25815		1957	14846	0000	00000	8158
0010	0542	27952		2208	14636	0070	00003	5750
0020	0352	29104		2317	14572	0122	00011	4709
0030	0284 B	29781		2376	14553	0167	00022	4144
0050	0010 I	3157 I		2536	. 14458	0235	00048	2622

C-REF-NO 005 CONS. NO 022 LAT 49-158N	MONTH 6 DAY 28	MXSAMPC NO.DPTH	01	WAVES 1 36X2 WAVES 2 00X0 WND-DIR 040 WND-SPD 03	WET B (08.1	STN
LON 66-093W MARSD SQ 151				BARO 1017.0			

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
158 158	0000	125 0454	В	2 5 560 28388		1922 2252	14875 14605
158	0020	0300		29020		2315	14548
158 158	0030	0254		30301 31798		2550	14498
158	0075	-0083	В	32362		2603	14430
158 158	0100 0115	0020	С	32855 33187		2639 2661	14489

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250	8	25560		1922	14875	0000	00000	8497
0010	0454		28388		2252	14605	0069	00003	5337
0020	0300		29020		2315	14548	0120	00010	4733
0030	0254		30301		2420	14547	0162	00021	3728
0050	0090		31798		2550	14498	0225	00045	2487
0075	-0083	8	32362		2603	14430	0281	00080	1979
0100	0020	C	32855		2639	14489	0327	00121	1644

C-REF-NO 005	YR 1963	DEPTH	188	WAVES 1 36X2	AIR T	10.2	VIS
CONS. NO 023	MONTH 6	MXSAMPD	02	WAVES 2 00X0	WET B	08.6	STN
LAT 49-173N	DAY 28	NO. DPTH	10	WND-DIR 040	WW-CODE	01	
LON 66-096W	HR 16.5	W-COLOR		WND-SPD 03	CLD-TPE	8	
MARSD SQ 151		'W-TRNSP		BARO 1017.0	CLD-AMT	1	HW

GMT	DEPTH	TEM	P	S A. L	OXYGEN	SGMT	SOUND
165	0000	112	В	26444		2013	14839
165	0010	0718	В	27717		2170	14704
165	0020	0364		28638		2279	14571
165	0030	0436		30684		2435	14631
165	0050	0014	5	32026		2572	14466
165	0075	-0055		32362		2602	14443
165	0100	-0008	8	32749		2632	14474
165	0125	0138		33285		2667	14552
165	0150	0239	6	33622		2686	14606
165	0175	0303		33884		2701	14641

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	26444	2013	14839	0000	00000	7627
0010	0718 B	27717	2170	14704	0069	00003	6118
0020	0364	28638	2279	14571	0125	00011	5072
0030	0436	30684	2435	14631	0168	00022	3588
0050	0014	32026	2572	14466	0227	00045	2275
0075	-0055	32362	2602	14443	0281	00079	1989
0100	-0008 B	32749	2632	14474	0328	00120	1711
0125	0138	33285	2667	14552	0367	00165	1385
0150	0239 B	33622	2686	14606	0399	00210	1205
0175	0303	33884	2701	14641	0428	00258	1064

C-REF-NO 005	YR 1963	DEPTH	307	WAVES 1 36X2	AIR T 10	0.7	VIS
				WAVES 2 00X0			STN
LAT 49-228N	DAY 28	NO.DPTH	14	WND-DIR 040	WW-CODE	02	
LON 66-132W	HR 17.7	W-COLOR		MND-SPD . 05	CLD-TPE		
MARSD SQ 151		W-TRNSP		BARD 1018.0	CLD-AMT	0	HW

GMT	DEPTH	TEM	P	SAL	DXYGEN	SGMT	SOUND
1.77	0000	115	В	30107		2291	14896
177	0010	1122		30115		2296	14887
177	0020	0693		30636		2402	14734
177	0030	0089		31901		2559	14495
177	0050	-0075		32275		2596	14429
177	0075	-0029	8	32638		2624	14459
177	0100	0065	8	33007		2649	14511
177	0125	0174	В	33412		2674	14570
177	0150	0263		33716		2692	14617
177	0175	0343	C	33992		2706	14660
177	0200	0395		34225		2720	14689
177	0224	0448	C	34457		2733	14718
177	0248	0472	C	34628		2743	14734
177	0288	0474		34681		2747	14743

DEPTH	TEM	Р	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1150	8	30107		2291	14896	0000	00000	4960
0010	1122		30115		2296	14887	0050	00003	4909
0020	0693		30636		2402	14734	0094	00009	3903
0030	0089		31901		2559	14495	0125	00017	2408
0050	-0075		32275		2596	14429	0170	00035	2050
0075	-0029	8	32638		2624	14459	0219	00065	1788
0100	0065	В	33007		2649	14511	0261	00103	1552
0125	0174	В	33412		2674	14570	0297	00144	1314
0150	0263		33716		2692	14617	0328	00188	1154
0175	0343	C	33992		2706	14660	0355	00233	1019
0200	0395		34225		2720	14689	0379	00279	0897
0225	0449	C	34466		2733	14719	0401	00325	0777
0250	0476	C	3463 B		2743	14736	0419	00370	0689

C-REF-NO 005	YR 1963	DEPTH 333	WAVES 1 36X2	AIR T 11.0	VIS
CONS. NO 025	MONTH 6	MXSAMPC 03	WAVES 2 00X0	WET B 08.9	STN
LAT 49-258N	DAY 28	NO.DPTH 15	WND-DIR 210	WW-CODE 02	
LON 66-132W	HR 18.9	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 151		W-TRNSP	BARO 1018.0	CLD-AMT 0	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
189	0000	118	8	30148		2289	14907
189	0010	1010	E	30221		2324	14848
189	0020	0137		31897		2555	14515
189	0030	8000		32156		2583	14462
189	0049	-0042		32430		2607	14446
189	0074	0019		32872		2640	14484
189	0099	0115	В	33213		2662	14537
189	0123	0199		33511		2680	14582
189	0146	0290	С	33804		2696	14630
189	0171	0354	С	-34037		2709	14664
189	0196	0393		34209		2719	14687
189	0220	0439 1	В	34392		2728	14713
189	0245	0462		34536		2737	14729
189	0294	0474		34688		2748	14744
189	0321	0475		34699		2749	14749

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	30148		2289	14907	0000	00000	4981
0010	1010 E	30221		2324	14848	0048	00002	4651
0020	0137	31897		2555	14515	0084	00007	2439
0030	8000	32156		2583	14462	0107	00013	2174
0050	-0041	32448		2609	14447	0148	00030	1930
0075	0023	32887		2641	14486	0193 .	00058	1621
0100	0118 B	33226		2663	14538	0231	00092	1417
0125	0207	33538		2682	14586	0265	00130	1243
0150	0302 C	33846		2699	14636	0294	00172	1090
0175	0361 C	34066		2711	14668	0320	00215	0981
0200	0401	34240		2720	14692	0344	00260	0892
0225	0445 B	34424		2730	14717	0365	00307	0803
0250	0465	34559		2739	14731	0385	00354	0726
0300	0477	34695		2748	14746	0419	00451	0645

C-REF-NO 005 CONS. NO 026	MONTH 6	MXSAMPD	. 03	WAVES 1 19X2 WAVES 2 00X0 WND-DIR 190	WET 8	10.4	
LAI 49-318N LON 66-140W MARSD SQ 151	HR 20.2	W-COLOR		WND-SPD 04 BARO 1018.0	CLD-TPE	3	

UBSERVED

CM1	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
202	0000	106 B	30194	2313	14864
202	0009	1003 €	30172	2321	14845
202	0018	0318	31317	2496	14587
202	0028	0036	31936	2564	14472
202	0046	0037	32933	2644	14489
202	0069	0105	33187	2661	14527
202	0092	0171 B	33416	2675	14563
202	0116	0250	33673	2689	14605
202	0140	0314 B	33890	2701	14640
202	0162	0363 B	34070	2711	14667
202	0185	0406	34267	2722	14692
202	0209	0441	34398	2729	14712
202	0233	0460 B	34511	2735	14725
202	0280	0471	34654	2746	14740
202	0305	0474	34698	2749	14746

INTERPOLATLO

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1060 B	30194	2313	14864	0000	00000	4748
0010	0932 1	3028 I	2341	14820	0046	00002	4487
0020	0233 D	3147 F	2515	14552	0083	80000	2826
0030	0019 E	3207 C	2576	14466	0109	00014	2246
0050	0046	3302 I	2651	14495	0147	00029	1533
0075	0122	33247	2665	14536	0184	00052	1403
0100	0198 B	33503	2680	14577	0217	00082	1262
0125	0276	33758	2694	14619	0247	00117	1132
0150	0337 8	33972	2705	14653	0275	00155	1027
0175	0388	34185	2717	14681	0299	00196	0919
0200	0429	34354	2726	14705	0321	00238	0836
0225	0455	34476	2733	14722	0342	00282	0775
0250	0466 B	34573	2740	14732	0360	00328	0718
0300	0474	34692	2748	14745	0395	00425	0644

C-REF-NO 005	YR 1963	DEPTH	329	WAVES 1 49X1	AIR T	11.8	VIS
CONS. NO 027	MONTH 6	MXSAMPD	03	WAVES 2 00X0	WET B	10.8	STN
LAT 49-374N	DAY 28	NO.DPTH	15	WND-DIR	WW-CODE	02	
LON 66-160W	HR 21.8	W-COLOR		WND-SPD	CLD-TPE	3	
MARSD SQ 151		W-TRNSP		BARO	CLD-AMT	2	HW

GMT	DEPTH	TEMF	Р	SAL	OXYGEN	SGMT	SOUND
218 218 218 218	0000 0009 0019 0028	102 E 0999 0264 -0014	В	30289 30279 31678 32028		2327 2330 2529 2574	14851 14845 14568 14450
218 218 218	0046 0070 0093	-0058 0022 0124 0		-32466 32888 33253		2611 2641 2665	14438 14485 14540
218	0116 0138	0219 0277 E	В	33571 33761		2684 2694 2705	14590 14622 14654
218 218 218	0161 0184 0208	0336 0 0380 0414 E		33963 34156 34296		2716 2723	14679 14699
218 218 218	0230 0279 0300	0456 0472 0473		34489 34653 34674		2734 2745 2747	14723 14740 14744

DEPTH	TEMI	PSAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1020	B 30289		2327	14851	0000	00000	4615
0010	0932	I 3041 I		2350	14822	0045	00002	4394
0020	0220	B 3174 D		2537	14550	0080	00007	2612
0030	-0038 1	E 3209 B		2580	14440	0105	00013	2207
0050	-0051	B 32544		2617	14443	0146	00030	1852
0075	0043	32971		2647	14497	0189	00057	1568
0100	0155	8 33359		2671	14557	0225	00089	1341
0125	0245	3366 B		2688	14604	0257	00126	1184
0150	0309	B 33867		2700	14639	0286	00166	1080
0175	0364	B 34084		2712	14670	0311	00209	0970
0200	0403 1	B 3425 B		2721	14692	0335	00254	0887
0225	0447	3445 B		2732	14718	0356	00300	0789
0250	0470	B 3459 C		2740	14733	0375	00346	0711
0300	0473	34674		2747	14744	0409	00443	0656

C-REF-NO 005	VR 1963	DEPTH	296	WAVES 1 49XX	AIR T	12.0	VIS
CONS. NO 028	MONTH 6	MXSAMPC	. 03	WAVES 2 DOXC	WET B	11.0	STN
LAT 49-495N	DAY 28	NO.DPTH	14	WND-DIR 260	WW-CODE	02	
LON 66-200W				WND-SPD 05	CLD-TPE	4	
MARSD SQ 151				BARO 1017.0	CLD-AMT	2	HW

GMT	DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND
230	0000	105 B	30125		2309	14860
230	0010	0996	30135		2319	14842
230	0020	0031	31991		2569	14469
230	0030	-0060	32221		2591	14431
230	0049	-0016 8	32423		2606	14458
230	0074	-0010	32646		2623	14468
230	0099	0028 B	32807		2635	14492
230	0123	8800	33125		2657	14527
230	0149	0184 C	33447		2676	14579
230	0172	0274	33771		2695	14626
230	0197	0337	34000		2708	14661
230	0222	0390 B	34189		2717	14690
230	0246	0448	34431		2730	14721
230	0288	0471	34633		2744	14741

DEPTH	TEMP	SAL	OXYGEN .	SGMT	SOUND	DELTA-D	POT. EN.	SVA
0000	1050 B	30125		2309	14860	0000	00000	4783
0010	0996	30135		2319	14842	0048	00002	4693
0020	0031	31991		2569	14469	0083	00007	2311
0030	-0060	32221		2591	14431	0105	00013	2097
0050	-0016 B	32433		2607	14458	0146	00029	1951
0075	-0009	32651		2624	14468	0193	00059	1786
0100	0030 B	32819		2635	14493	0236	00098	1676
0125	0095	33149		2658	14531	0276	00143	1461
0150	0188 C	33462		2677	14581	0310	00192	1287
0175	0283	33803		2697	14631	0341	00242	1107
0200	0343	34022		2709	14664	0367	00293	0999
0225	0398 B	34220		2719	14694	0391	00345	0906
0250	0444 C	3442 H		2730	14720	0413	00398	0806

C-REF-NO 005	YR 1963	DEPTH	176	WAVES 1 49X0	AIR T O	9.0 V	IS
CONS. NO 029	MONTH 6	MXSAMPD	02	WAVES 2 00X0	WET B O	8.8 5	TN
LAT 50-039N	DAY 29	NO.DPTH	10	WND-DIR C60	WW-CODE	01	
LON 66-247W	HR 09.9	W-COLOR		WND-SPD 02	CLD-TPE	7	
MARSD SQ 187		W-TRNSP		BARO 1019.0	CLU-AMT	5 HI	W

GMT	DEPTH	TEM	P ·	SAL	OXYGEN	SGMT	SOUND
099	0000	078	8	30188		2355	14759
099	0010	0685		30419		2386	14726
099	0020	0434		31025		2462	14633
099	0030	0350		31327		2494	14603
099	0050	0242		31585		2523	14563
099	0075	0026		32240		2589	14479
099	0100	0035	В	32792		2633	14495
099	0124	0058	В	32886		2639	14510
099	0149	0079		32984		2646	14525
099	0169	0104		33132		2656	14542

DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0700 0	20100		2255	1/750	0000	00000	1215
0000	0780 B	30188		2355	14759	0000	00000	4345
0010	0685	30419		2386	14726	0042	00002	4054
0020	0434	31025		2462	14633	0079	80000	3329
0030	0350	31327		2494	14603	0111	00016	3026
0050	0242	31585		2523	14563	0169	00039	2746
0075	0026	32240		2589	14479	0230	00077	2116
0100	0035 B	32792		2633	14495	0278	00120	1699
0125	0059 B	32889		2640	14511	0320	00168	1638
0150	0082	3300 C		2648	14527	0361	00225	1564

C-REF-NO 005	YR 1963 MONTH 6	DEPTH MXSAMPD	135	WAVES 1 06X0 WAVES 2 00X0	AIR T C	9.2	VIS STN
LAT 50-007N	DAY 29	NO. DPTH	8	WND-DIR 060	MM-CODE	02	
LON 66-230W MARSD SQ 187				WND-SPD 02 BARO 1019.0			

GMT	DEPTH	TEMP	SALOX	YGEN SGMT	SOUND
110 110 110 110 110	0000 0010 0020 0030 0050 0075	084 8 0727 0472 0320 0105 0007	29320 30202 30951 31382 31864 32431 32674	2279 2364 2452 2501 2555 2605 2625	14771 14740 14648 14591 14505 14473 14481
110	0125	0148	33309	2668	14557

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0840 B	29320		2279	14771	0000	00000	5073
0010	0727	30202		2364	14740	0047	00002	4268
0020	0472	30951		2452	14648	0086	00008	3421
0030	0320	31382		2501	14591	0118	00016	2959
0050	0105	31864		2555	14505	0172	00038	2445
0075	0007	32431		2605	14473	0227	00072	1962
0100	0009 B	32674		2625	14481	0274	00114	1776
0125	0148	33309		2668	14557	0314	00160	1374

C-REF-NO 005	YR 1963	DEPTH	99	WAVES 1 18X0	AIR T 1	2.1	VIS
CONS. NO 031	MONTH 6	MXSAMPC	00	WAVES 2 00X0	WET B 1	1.6	STN
LAT 49-494N	DAY 29	NO.DPTH	5	WND-DIR 180	WW-CODE	03	
LON 66-590W	HR 13.4	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	7	HW

GMT	DEPTH	TEMP	S A L OX'	YGEN SGMT	SOUND
134	0000	111 B	29187	2227	14870
134	0010	0810 B	29936	2331	14769
134	0020	0447	30890	2450	14636
134	0030	0243	31529	2519	14559
134	0045	0151	31713	2540	14523

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1110 B	29187		2227	14870	0000	00000	5575
0010	0810 B	29936		2331	14769	0051	00002	4574
0020	0447	30890		2450	14636	0091	80000	3443
0030	0243	31529		2519	14559	0123	00016	2789

C-REF-NO 005	YR 1963	DEPTH	134	WAVES 1 18X0	AIR T 1	1.6	VIS
CUNS. NO 032				WAVES 2 00X0			
LAT 49-488N	DAY 29	NO.DPTH	8	WND-DIR 180	WW-CODE	01	
LON 66-555W	HR 13.9	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	6	HW

GMT	DEPTH	TEMI	Р	SAL	OXYGEN	SGMT	SOUND
139	0000	114	В	29263		2227	14882
139	0010	0828		29894		2326	14775
139	0020	0428	В	31218		2478	14633
139	0030	0333		31425		2503	14597
139	0050	-0008		32079		2578	14457
139	0075	-0014		32389		2603	14463
139	0100	-001C		32672		2626	14472
139	0124	0106		33159		2659	14536

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140 B	29263		2227	14882	0000	00000	5568
0010	0828	29894		2326	14775	0051	00002	4630
0020	0428 B	31218		2478	14633	0090	00008	3178
0030	0333	31425		2503	14597	0121	00016	2938
0050	-0008	32079		2578	14457	0173	00036	2225
0075	-0014	32389		2603	14463	0226	00070	1984
0100	-0010	32672		2626	14472	0273	00112	1769
0125	0111	33180		2660	14539	0314	00158	1448

C-REF-NO 005	YR 1963	DEPTH	205	WAVES 1 16X1	AIR T 11.9	VIS
CONS. NO 033	MONTH 6	MXSAMPC	02	WAVES 2 00X0	WET B 11.6	STN
LAT 49-476N	DAY 29	NO.DPTH	11	WND-DIR 160	WW-CODE 01	
LON 66-524W	HR 14.6	W-COLOR		WND-SPD . 05	CLD-TPE 4	
MARSD SQ 151		W-TRNSP		BARO 1016.5	CLD-AMT 5	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
146	0000	102 B	29381	2257	14840
146	0010	0959 0322	30016 31457	2316 2507	14591
146	0030 0050	0125 0030	31815 32226	2550 2588	14511
146	0075	-0042 B	32499 32769	2613	14451
146	0125	0110	33187	2661	14538
146	0150 0175	0194 0323 D	33473 33923	2678 2703	14584
146	0195	0395	34219	2719	14688

DEPTH	TEMP	S A L OXYGEN	SGMT , SOUND	DELTA-D	POT.EN	SVA
0000	1020 B	29381	2257 14840	0000	00000	5289
0010	0959	30016	2316 14827	0050	00002 .	4726
0020	0322	31457	2507 14591	0089	80000	2904
0030	0125	31815	2550 14511	0116	00015	2494
0050	0030	32226	2588 14476	0162	00033	2130
0075	-0042 B	32499	2613 14451	0213	00065	1889
0100	0010 B	32769	2632 14483	0258	00106	1704
0125	0110	33187	2661 14538	0298	00151	1441
0150	0194	33473	2678 14584	0332	00199	1283
0175	0323 D	33923	2703 14650	0361	00248	1053

C-REF-NO 005	YR 1963	DEPTH	293	WAVES 1 14X2	AIR T	13.3	AIS
LONS. NO 034			0.3	WAVES 2 00X0	WET B	12.0	STN
LAT 49-441N				WND-DIR 140	WW-CODE	02	
LUN 66-394W				WND-SPD 04	CLD-TPE	4	
MARSD SQ 151				BARO 1016.0	CLD-AMT	5	HW

GMT	DEPTH	TEMP	S A L	OXYGEN	SGMT	SOUND
158 158	0000	104 B	301C2 30761		2309 2421	14856 14703
158 158	0020	0156 -0052	31722 32083		2540 2580	14521 14433
158	0050	-0006	32449		260 7	14463
158	0075	0022	32806		263 5	14485
158	0100	0060 B	33038		2652	14510
158	0124	0120	33242		2664	14543
158 158	0149	0166 0248 B	33399 33671		2674 2689	14570 14614
158	0199	0336	33993		270 7	14661
158	0224	0402 B	34226		2719	14696
158	0249	0433 B	34375		2728	14715
158	0284	0464	34580		2740	14736

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1040	Ω	30102		2309	14856	0000	00000	4785
0010	0616		30761		2421	14703	0043	00000	3717
0020	0156	U	31722		2540	14521	0074	00006	2583
0030	-0052		32083		2580	14433	0098	00013	2206
0050	-0006		32449		2607	14463	0140	00029	1943
0075	0022		32806		2635	14485	0186	00058	1683
0100	0060	8	33038		2652	14510	0226	00094	1525
0125	0122		33248		2665	14544	0263	00137	1403
0150	0169		33408		2674	14572	0297	00185	1314
0175	0252	В	33684		2690	14616	032.9	00237	1170
0200	0339		34004		2708	14662	0356	00289	1009
0225	0404	В	34233		2719	14697	0380	00342	0903
0250	0440	В	3440 D		2729	14718	0402	00395	0820

C-REF-NO 005	YR 1963	DEPTH	293	WAVES 1 14X0	AIR T 13	3.0 VIS
CONS. NO 035	MONTH 6	MXSAMPD	03	WAVES 2 00X0	WET B 12	.5 STN
LAT 49-408N	DAY 29	NO.DPTH	14	WND-DIR 140	WW-CODE	02
LON 66-280W	HR 17.0	W-COLOR		WND-SPD 02	CLD-TPE	4
MARSD SQ 151		W-TRNSP		BARO 1016.0	CLD-AMT	5 HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
170	0000	103 B	30340		2329	14855
170	0010	0841	30551		2375	14789
170	0020	0124	31837		2551	14509
170	0030	-0032	32111		2581	14443
170	0050	-0052	32534		2616	14443
170	0075	0024 B	32800		2634	14486
170	0100	0069 B	33057		2653	14514
170	0125	0158	33366		2672	14562
170	0150	0247 B	33666		2689	14610
170	0175	0310 C	33866		2699	14644
170	0199	0373	34130		2714	14678
170	0224	0413 B	34275		2722	14701
170	0249	0447 B	34452		2732	14722
170	0284	0470	34640		2745	14740

DEPTH	T E M	P	S A L OXY	GEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1030	В	30340	2329	14855	0000	00000	4592
0010	0841		30551	2375	14789	0044	00002	4158
0020	0124		31837	2551	14509	0077	00007	2477
0030	-0032		32111	2581	14443	0101	00013	2192
0050	-0052		32534	2616	14443	0142	00029	1859
0075	0024	В	32800	2634	14486	0186	00057	1688
0100	0069	В	33057	2653	14514	0227	00093	1516
0125	0158		33366	2672	14562	0263	00135	1337
0150	0247	В	33666	2689	14610	0294	00179	1179
0175	0310	C	33866	2699	14644	0323	00227	1084
0200	0375		34137	2715	14679	0348	00275	0943
0225	0415	В	34282	2722	14702	0371	00325	0877
0250	0446	В	3444 C	2732	14722	0392	00377	0792

C-REF-NO 005	YR 1963	DEPTH	329	WAVES 1 09X0	AIR T	13.0	-VIS
CONS. NO 036			. 03	WAVES 2 00X0	WET 8	13.0	STN
LAT 49-373N	DAY 29	NO.DPTH	15	WND-DIR 090	WW-CODE	02	
LON 66-160W				WND-SPD 02			
MARSD SQ 151				BARO 1015.0	CLD-AMT	5	HW

GMT	DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND
183 183	0000	125 8 0656	30083 30676		22 71 2410	14930 14718
183 183 183	0020 0030 0050	0086 B -0057 -0028	31885 32183 32669		2558 2588 2626	14492 14432 14456
183	0075	0064 0137 E	32996		2648 2668	14507 14548
183 183	0125 0150 0175	0234 0300 C 0353 D	33622 33849 34039		2686 2699 2709	14599 14635 14664
183	0200	0386 0430 C	34190 34353		2718	14685
183 183 183	0249 0299 0319	0467 B 0473 0474	34564 34682 34703		2739 2748 2749	14732 14744 14748

DEPTH	T E M	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250	В	30083		2271	14930	0000	00000	5151
0010	0656		30676		2410	14718	0045	00002	3827
0020	0086	В	31885		2558	14492	0076	00006	2419
0030	-0057		32183		2588	14432	0099	00012	2128
0050	-0028		32669		2626	14456	0139	00028	1766
0075	0064		32996		2648	14507	0180	00054	1560
0100	0137	E	33296		2668	14548	0217	00087	1376
0125	0234		33622		2686	14599	0250	00124	1200
0150	0300	C	33849		2699	14635	0279	00165	1086
0175	0353	D	34039		2709	14664	0305	00209	0994
0200	0386		34190		2718	14685	0329	00255	0915
0225	0430	C	34353		2726	14709	0351	00303	0840
0250	0468	В	34569		2739	14732	0371	00351	0722
0300	0480	C	3471 F		2749	14747	0405	00447	0637

C-REF-NO 005	YR 1963	DEPTH	296	WAVES 1 11X0	AIR T 1	3.6	VIS
CONS. NO 037.	MONTH 6	MXSAMPC	03	WAVES 2 00X0	WET B 1	3.4	STN
LAT 49-285N	DAY 29	NO.DPTH	14	WND-DIR 110	WW-CODE	03	
LON 66-268W				WND-SPD 02	CLD-TPE	Х	
MARSD SQ 151		W-TRNSP		BARO 1015.0	CLD-AMT	7	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT SOUND
198	0000	103 B	30361	2331 14856
198	0010	0894	30412	2356 14807
198	0019	0223	31765	2539 14552
198	0029	0032	31969	2567 14470
198	0048	-0052	32534	2616 14443
198	0072	0046 B	32953	2645 14497
198	0097	0151 C	33331	2669 14554
198	0121	0235	33624	2687 14599
198	0145	0310 C	33878	2700 14639
198	0169	0358 D	34048	2709 14666
198	0193	0388	34198	2718 14684
198	0217	0428 C	34342	2726 14707
198	0241	0455 B	34480	2734 14724
198	0282	0472	34659	2746 14740

DEPTH	TEM	р	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT EN	SVA
			07110411	00111	350110	DEE!A D	101001	2 4 W
0000	1030	В	30361	2331	14856	0000	00000	4577
0010	0894		30412	2356	14807	0045	00002	4336
0020	0188	D	3182 G	2545	14537	0079	00007	2534
0030	0021		3200 B	2570	14466	0104	00013	2300
0050	-0048	В	3258 B	2619	14445	0145	00030	1829
0075	0059	В	33002	2649	14504	0188	00057	1553
0100	0162	C	33371	2672	14560	0224	00089	1336
0125	0249		33671	2689	14606	0256	00125	1176,
0150	0322	C	33918	2702	14645	0284	00165	1054
0175	0366	C	34087	2712	14671	0309	00207	0970
0200	0400		34241	2720	14691	0333	00252	0891
0225	0438	8	34390	2728	14713	0354	00299	0822
0250	0462	В	34520	2736	14729	0374	00347	0753

C-REF-NO 005	YR 1963	DEPTH	234	WAVES 1 10X0	AIR T	12.5	VIS
CONS. NO 038	MONTH 6	MXSAMPD	02	WAVES 2 00X0	WET B	11.6	STN
LAT 49-323N	DAY 29	NO.DPTH	12	WND-DIR 100	WW-CODE	03	
LUN 66-409W	HR 21.2	W-COLOR		WND-SPD . 03	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARU 1014.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
212	0000	104 B 0930	30386 30378		2331	14860 14820
212 212 212	0020 0030 0050	0119 -0038 -0048	31842 32132 32432		2552 2583 2608	14507 14440 14443
212	00 7 5 00 9 9	0006 0073 8	32766 33059		2632 2652	14477 14516
212 212 212	0124 0149 0174	0188 0288 B 0356 C	33464 33 7 99 34041		2677 2696 2 7 09	14577 14629 14666
212	0199	0420 0448 C	34328 34442		2725 2731	14701

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1040	В	30386		2331	14860	0000	00000	4574
0010	0930		30378		2348	14820	0045	00002	4414
0020	0119		31842		2552	14507	0800	00007	2470
0030	-0038		32132		2583	14440	0103	00013	2173
0050	-0048		32432		2608	14443	0144	00030	1939
0075	0006		32766		2632	14477	0190	00059	1706
0100	0077	В	33075		2653	14518	0231	00095	1507
0125	0192		33479		2678	14579	0266	00135	1277
0150	0291	В	33809		2697	14631	0296	00177	1108
0175	0359	C	34054		2710	14667	0322	00221	0988
0200	0416	В	3430 H		2723	14699	0346	00266	0864
0225	0449	C	34447		2732	14719	0367	00311	0791

C-REF-NO 005	YR 1963	DEPTH	183	WAVES 1 07X1	AIR T 1	1.3	VIS
CONS. NO 039	MONTH 6	MXSAMPD	02	WAVES 2 00X0	WET B 1	1.1	STN
LAT 49-357N	DAY 29	NO. DPTH	10	WND-DIR 070	WW-CODE	03	
LON 66-540W	HR 22.4	W-COLOR		WND-SPD 02	CLD-TPE	5	
MARSD SQ 151		W-TRNSP		BARO 1013.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	S	A L	OXYGEN	SGMT	SOUND
224	0000	100 B	29	966		2305	14840
224	0010	0802	30	399		-2369	14772
224	0020	0312	31	622		2521	14589
224	0030	0065	31	987		2567	14486
224	0050	0006	32	305		2595	14466
224	0074	-0023 B	3 32	568		2618	14461
224	0099	0018 0	32	834		2637	14487
224	0124	0081	33	094		2655	14524
224	0149	0208 B	3 3 3	533		2681	14591
224	0174	0344	34	073		2713	14661

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1000 B	29966	2305	14840	0000	00000	4823
0010	0802	30399	2369	14772	0045	00002	4218
0020	0312	31622	2521	14589	0081	00007	2771
0030	0065	31987	2567	14486	0106	00014	2330
0050	0006	32305	2595	14466	0150	00031	2058
0075	-0022 B	32579	2619	14461	0199	00063	1836
0100	0020 C	32843	2638	14488	0243	00102	1653
0125	0085	33109	2656	14526	0283	00147	1486
0150	C204 C	3354 C	2682	14589	0317	00195	1240
0175	0351	34098	2714	14664	0345	00241	0947

C-REF-NO 005	YR 1963	CEPTH	150	WAVES 1 01X1	AIR T	11.5	VIS
CONS. NO 040				WAVES 2 00X0	WET B	10.5	STN
LAT 49-372N			9	WND-DIR 010	WW-CODE	03	
LUN 67-017W	HR 23.3	W-COLOR		WND-SPD 04	CLD-TPE	5	
MARSD SQ 151		W-TRNSP		BARO 1013.0	CLD-AMT	7	HW

GMT	DEPTH	TEM	p	SAL	OXYGEN	SGMT	SOUND
233	0000	108	В	29489		2255	14863
233	0010	0918		29714		2298	14807
233	0019	0437		31096		2467	14635
233	0029	0244		31516		2518	14559
233	0049	0024		32169		2584	14473
233	0073	-0023	D	32350		2600	14458
233	0097	-0024	C	32541		2616	14464
233	0122	0026		32848		2638	14495
233	0141	0237	В	33633		2687	14603

DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1080 B	29489		2255	14863	0000	00000	5303
0010	0918	29714		2298	14807	0051	00003	4890
0020	0408 B	3117 F		2476	14624	0092	00008	3199
0030	0228	31557		2522	14553	0122	00016	2757
0050	0019	3218 B		2585	14471	0171	00036	2158
0075	-0025 D	32364		2601	14457	0223	00069	1999
0100	-0026 C	3255 D		2617	14463	0272	00112	1853
0125	0077 I	3304 I		2650	14522	0315	00161	1535

C-REF-NO 005	YR 1963	DEPTH	44	WAVES 1 36X0	AIR T 12	2.5 VIS
CONS. NO 041	MONTH 6	MXSAMPC	00	WAVES 2 00X0	WET B 12	2.0 STN
LAT 49-395N	DAY 30	NO.DPTH	5	WND-DIR 360	WW-CODE	63
LON 67-090W	HR 00.1	W-COLOR		WND-SPD 05	CLD-TPE	5
MARSD SQ 151		W-TRNSP		BARO 1014.0	C LD-AMT	8 HW

GMT	DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND
001	0000	111 D	26842	2045	14841
001	0000	111 B			
001	0010	0597	30497	2403	14692
001	0020	0425	30910	2454	14627
001	0030	0260	31397	2507	14565
001	0040	0139	31728	2542	14517

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1110 B	26842		2045	14841	0000	00000	7315
0010	0597	30497		2403	14692	0056	00002	3893
0020	0425	30910		2454	14627	0093	00007	3407
0030	0260	31397		2507	14565	0125	00015	2901

CONS. NO 042 LAT 49-284N LON 67-125W	MONTH 6 DAY 30 HR 01.3	MXSAMPD NO.DPTH W-COLOR	0.0	WAVES 1 31X0 WAVES 2 00X0 WND-DIR 310 WND-SPD 02	WW-CODE CLD-TPE	63	5114
MARSO SO 151		W-TRNSP		BARO 1013.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
013	0000	110 B	29404	2245	14869
013	0010	0847	29982	2330	14784
013	0020	0525	30706	2427	14667
013	0030	0241	31449	2513	14557
013	0046	0134	31762	2545	14516

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000 0010 0020 0030	1100 B 0847 0525 0241	29404 29982 30706 31449		2330	14869 14784 14667 14557	0000 0050 0092 0124	00000 00002 00008 00017	5398 4590 3659 2848

C-REF-NO 005	YR 1963	DEPTH .	86	WAVES 1 16X2	AIR T 1	4.0	VIS
CONS. NO 043	MONTH 6	MXSAMPC	01	WAVES 2 49XX	WET B 1	4.0	STN
LAT 49-284N	DAY 30	NO.DPTH	7	WND-DIR 160	WW-CODE	63	
LON 67-077W	HR 02.3	W-COLOR		WND-SPD 12	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1010.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
023	0000	118 B	29189	2215	14895
023	0009	1182	29187	2214	14897
023	0019	0819	29955	2332	14774
023	0028	0378	31313	2490	14614
023	0047	0076	31946	2563	14493
023	0070	0022 B	32180	2585	14475
023	0075	0018 C	32211	2587	14475

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	29189	2215	14895	0000	00000	5690
0010	1157 B	29228	2222	14889	0057	00003	5625
0020	0768 C	3011 G	2351	14756	0107	00010	4392
0030	0321 E	3146 I	2507	14592	0144	00019	2901
0050	0058 C	3200 C	2568	14486	0196	00040	2318
0075	0018 C	32211	2587	14475	0252	00076	2135

C-REF-NO 005	YR 1963	DEPTH	221	WAVES 1 24X1	AIR T 1	.3.0	VIS
CONS. NO 044	MONTH 6	MXSAMPD		WAVES 2 00X0			STN
LAT 49-273N	DAY 30	NO.DPTH	po 444	WND-DIR 240			
LON 66-580W	HR 03.5	W-COLOR		WND-SPD 05	CLD-TPE	Х	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	SAL	DXYGEN SGMT	SOUND
035	0000	108 8	29497	2256	14863
035	0010	0983	29657	2284	14831
035	0020	0274	31389	2505	14569
035	0030	0150	31786	2546	14521
035	0049	0012	32070	2576	14466
035	0074	-0044	32298	2597	14447
035	0099	-0036	32583	2620	14459
035	0123	0044	32946	2645	14505
035	0148	0144	33308	2668	14559
035	0172	0238 C	33639	2687	14609
035	0196	0357	34101	2714	14670
035	0218	0420	34413	2732	14705

DEPTH	T E M F	S A L OXY	GEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1080 E	3 29497	2256	14863	0000	00000.	5297
0010	0983	29657	2284	14831	0052	00003	5029
0020	0274	31389	2505	14569	0092	00008	2918
0030	0150	31786	2546	14521	0119	00015	2531
0050	8000	32080	2577	14464	0167	00034	2231
0075	-0045	32308	2598	14447	0221	00068	2034
0100	-0034	32597	2621	14461	0269	00112	1816
0125	0052	32976	2647	14509	0312	00160	1568
0150	0151	33333	2670	14563	0349	00212	1358
0175	0254 0	337C B	2691	14617	0380	00265	1162
0200	0359 [3412 H	2715	14672	0407	00315	0938

C-REF-NO 005	YR 1963	DEPTH	296	WAVES 1 32X0	AIR T 13.	O VIS
CONS. NO 045	MONTH 6	MXSAMPD	03	WAVES 2 00X0	WET B 13.	0 STN
LAT 49-268N	DAY 30	NO.DPTH	14	WND-DIR 320	WW-CODE C	12
LON 66-518W	HR 05.0	W-COLOR		WND-SPD · 02	CLD-TPE	X
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	9 HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
050	0000	108 B	30047		2298	14870
050	0010	0777	30570		2386	14764
050	0019	0218	31558		2523	14547
050	0029	0125	31890		2556	14511
050	0048	-0040	32270		2594	14444
050	0072	-0038	32468		2610	14452
050	0096	0003 C	32785		2634	14479
050	0120	0087	33120		2657	14526
050	0143	0183 B	33442		2676	14577
050	0167	0253 B	33687		2690	14615
050	0190	0314	33918		2703	14649
050	0214	0374 D	34151		2716	14681
050	0238	0448 C	34463		2733	14721
050	0278	0468	34618		2743	14738

DEPTH	TEME	р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
DETTI		•							
0000	1080	В	30047		2298	14870	0000	00000	4889
0010	0777	0	30570		2386	14764	0045	00002	4057
0020	0196	n	3161 D		2529	14538	0079	00007	2693
0020	0114	U	31917		2558	14507	0105	00013	2410
0050	-0045	R	3229 B		2596	14443	0149	00031	2049
0075	-0035	0	32504		2613	14454	0199	00063	1888
0100	0015	r	32840		2638	14486	0244	00103	1653
0100	0108	C	33194		2661	14538	0282	00147	1436
0150	0205	B	33518		2680	14589	0316	00195	1257
0175	0275	U	33768		2695	14627	0346	00245	1126
0200	0338	В	34011		2708	14662	0373	00296	1003
		C	3430 C		2724	14700	0397	00347	0859
0225	0410	_	3449 I		2735	14724	0417	00397	0763
ロノつい	0401	L.	JTT 7 L		for 1 or or	DE 1 1 10 10 1			

C-REE-NO 005	YR 1963	DEPTH	291	WAVES 1 32X0	AIR T	14.6	VIS
CONS NO 046	MONTH 6	MXSAMPD	03	WAVES 2 00X0	WET B	14.0	STN
LAT 49-230N			14	WND-DIR 320	WW-CODE	01	
LON 66-508W				WND-SPD 02			
MARSD SQ 151				BARO 1012.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP)	SAL	OXYGEN	SGMT	SOUND
061	0000	106 E	3	29259		2241	14853
061	0010	0483 E	3	30850		2443	14649
061	0019	0128 E	3	31836		2551	14510
061	0029	0016		32031		2573	14464
061	0048	-0106		32212		2592	14413
061	0072	-0021 E	}	32444		2608	14460
061	0097	-0012		32659		2625	14471
061	0121	0083		33094		2655	14524
061	0145	0192 E	3	33465		2677	14582
061	0170	0288 (~	33786		2695	14632
061	0194	0359		34085		2712	14671
061	0217	0401 [)	34212		2718	14694
061	0241	0431 E	3	34350		2726	14712
061	0271	0464		34580		2740	14734

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1060 B	29259	2241	14853	0000	00000	5442
0010	0483 B	30850	2443	14649	0045	00002	3508
0020	0109 C	3188 D	2556	14503	0075	00006	2437
0030	0000	32044	2574	14460	0098	00012	2259
0050	-0103 B	32232	2593	14415	0142	00030	2074
0075	-0020 B	3246 B	2609	14461	0192	00062	1924
0100	-6003	3271 B	2628	14476	0239	00103	1744
0125	0101	33160	2659	14534	0279	00149	1456
0150	C213 B	33532	2681	14593	0313	00197	1253
0175	0305 C	3386 B	2699	14641	0342	00246	1087
0200	0372	3413 B	2714	14678	0368	00295	0949
0225	6412 C	34255	2720	14701	0391 .	00346	0894
0250	0444 B	34420	2730	14720	0413	00398	0808

C-REF-NO 005	YR 1963	DEPTH	304	WAVES 1 22X0	AIR T 13.5	VIS
CONS. NO 047	MONTH 6	MXSAMPC	03	WAVES 2 00X0	WET B 13.0	STN
LAT 49-179N	DAY 30	NO.DPTH	15	WND-DIR 220	WW-CODE 02	
LON 66-488W	HR 07.2	W-COLOR		WND-SPD 02	CLD-TPE X	
MARSD SQ 151		W-TRNSP		BARO 1012.0	CLD-AMT 9	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
072	0000	114 8	30050		2288	14891
072	0010	1085	30026		2296	14873
072	0020	0206	31602		2527	14542
072	0029	0048	32022		2571	14478
072	0048	-0055	32278		2596	14438
072	0071	-0022 B	32596		2620	14461
072	0095	0002 C	32731		2630	14478
072	0118	0067	33042		2651	14516
072	0140	0181 B	33429		2675	14576
072	0164	0290 C	33796		2696	14632
072	0188	0349	34040		2710	14665
072	0213	0404 C	34227		2719	14695
072	0237	0436 C	34379		2728	14714
072	0260	0460	34533		2737	14730
072	0275	0465	34578		2740	14735

DEPTH	TEM	p	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1140	В	30050	2288	14891	0000	00000	4986
0010	1085		30026	2296	14873	0050	00003	4915
0020	0206		31602	2527	14542	8800	00008	2707
0030	0037		3205 C	2573	14474	0113	00014	2271
0050	-0055	R	32309	2598	14438	0156	00032	2030
0075	-0019	В	3262 C	2622	14463	0205	03062	1807
0100	0012	1.0	32787	2634	14484	0249	00102	1692
0125		В	3316 В	2659	14534	0288	00147	1454
0150	0230	В	33593	2684	14601	0322	00194	1221
0175	0321	4,	33919	2703	14649	0351	00242	1053
0200	0377	_	34136	2714	14680	0376	00290	0946
0200	0422	-	34304	2723	14705	0399	00340	0868
0225	0451	В	3447 B	2733	14724	0419	00390	0777

C-REF-NO 005	YR 1963	DEPTH	293	WAVES 1 26X0	AIR T	14.6	VIS
CONS. NO 048	MONTH 6	MXSAMPC	03	WAVES 2 00X0	WET B	14.1	STN
LAT 49-129N	DAY 30	NO. DPTH	14	WND-DIR 260	WW-CODE	01	
LON 66-456W	HR 08.5	W-COLOR		WND-SPD 03	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1012.0	CLD-AMT	3	HW

GMT	DEPTH	TEMP)	SAL	OXYGEN	SGMT	SOUND
085	0000	116 B	3	30236		2299	14901
0.85	0009	1110 0	2	30238		2308	14885
085	0019	0554 B	3	30763		2429	14679
085	0028	0192		31611		2529	14537
085	0047	-0033		32126		2583	14446
085	0071	-0039		32513		2614	14452
085	0094	0002 0	-	32774		2633	14478
085	0118	0077		33093		2655	14521
085	0143	0194 B	3	33479		2678	14583
085	0165	0299 0		33833		2698	14637
085	0190	0341		34013		2708	14661
085	0212	0395 B	3	34196		2717	14691
085	0240	0430 C		34364		2727	14712
085	0269	0454		34537		2738	14729

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	30236	2299	14901	0000	00000	4882
0010	1063 F	30268	2318	14868	0048	00002	4699
0020	0506 B	3086 D	2441	14661	0089	00008	3526
0030	0147 0	3171 H .	2540	14519	0120	00016	2586
0050	-0044 C	32186	2588	14442	0168	00035	2129
0075	-0035	32561	2618	14455	0218	00067	1845
0100	0017 B	32849	2639	14488	0262	00106	1647
0125	0108	33197	2662	14537	0300	00150	1432
0150	0231 B	3360 C	2685	14602	0334	00197	1215
0175	0319 C	3392 D	2703	14649	0362	00244	1054
0200	0366	34098	2713	14675	0388	00293	0964
0225	0414 B	34279	2722	14702	0411	00344	0879
0250	0444 B	3444 B	2731	14720	0432	00395	0796

C-REF-NO 005 CONS. NO 049	MONTH 6	MXSAMPC		WAVES 1 23X0 WAVES 2 00X0		
LAT 49-090N	DAY 30	NO.DPTH	11	WND-DIR 230	WW-CODE C	1
LON 66-445W				WND-SPD 02	CLD-TPE	3
MARSD SQ 151		W-TRNSP		BARO 1012.0	CLU-AMT	2 HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
096	0000	116	В	28806		2189	14883
096	0010	0547		28563		2256	14646
096	0019	0652		30305		2381	14713
096	0029	0340		31148		2481	14596
096	0048	0028		32053		2574	14473
096	0072	-0029	В	32389		2604	14455
096	0096	-0031	В	32608		2621	14461
096	0120	0052	В	32997		2649	14509
096	0146	0167	В	33384		2672	14570
096	0168	0278	C	33779		2695	14628
096	0201	0379		34163		2716	14681

DEPTH	TEMP	S A L DXYGEN	SGMT . SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	28806	2189 14883	0000	-00000	5940
0010	0547	28563	2256 14646	0056	00003	5294
0020	0629 D	3042 E	2393 14705	0103	00010	3987
0030	0316	31214	2488 14587	0138	00018	3083
0050	0015 B	3210 C	2578 14468	0192	00039	2219
0075	-0033 B	3242 B	2606 14454	0244	00073	1957
0100	-0021 B	3267 B	2626 14467	0291	00114	1767
0125	0072 B	33069	2653 14520	0332	00161	1508
0150	0188 B	3346 B	2677 14581	0368	00211	1290
0175	0294 D	3384 H	2698 14636	0398	00261	1091
0200	0376	34151	2716 14680	0423	00309	0934

C-REF-NO 005	YR 1963	DEPTH	144	WAVES 1 24X1	AIR T	14.9	VIS
CONS. NO 050	MONTH 6	MXSAMPD	01	WAVES 2 00X0	WET 8	14.3	STN
LAT 49-075N	DAY 30	NO.DPTH	8	WND-DIR 240	WW-CODE	03	
LON 66-432W	HR 10.3	W-COLOR		WND-SPD . 04	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1012.0	CLD-AMT	6	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
103	0000	114 B	26898	2045	14852
103	0010	0775	27733	2164	14727
103	0019	0391	28864	2295	14586
103	0029	0213	30755	2459	14535
103	0048	0077 B	31946	2563	14494
103	0072	-0046	32625	2623	14451
103	0097	-0024 B	32615	2622	14465
103	0126	0089	33108	2655	14528

DEPTH	TEM	Р	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140	В	26898	2045	14852	0000	00000	7322
.0010	0775		27733	2164	14727	0068	00003	6176
0020	0366	H	2906 H	2312	14577	0122	00011	4755
0030	0202		3086 G	2469	14532	0163	00021	3265
0050	0063	В	32033	2571	14489	0219	00043	2293
0075	-0049		3263 G	2624	14450	0270	00075	1784
0100	-0033	E	3286 I	2642	14465	0313	00113	1616
0125	0082		3310 C	2655	14525	0352	00158	1490

C-REF-NO 005	YR 1963	DEPTH	49	WAVES 1 24X1	AIR T 14	.9 VIS
CONS. NO 051	MONTH 6	MXSAMPD	0.0	WAVES 2 00X0	WET B 14	.2 STN
LAT 49-065N	DAY 30	NO.DPTH	5	WND-DIR 240	WW-CODE	01
LON 66-420W	HR 10.8	W-COLOR		WND-SPD · 03	CLD-TPE	4
MARSD SQ 151		W-TRNSP		BARO 1012.0	CLD-AMT	6 HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
108	0000	118 8	26958		2042	14867
108	8000	1052	27065		2072	14824
108	0018	0286	29585		2361	14550
108	0028	0252	30147		2408	14544
108	0038	0197 B	30959		2477	14532

DEPTH	TEMP	S A L DXYGEN	SGMT SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030			2042 14867 2132 14772 2378 14537 2459 14489	0000 0069 0122 0160	00000 00003 00011 00020	7342 6479 4132 3357

C-REF-NO 005 CONS. NO 052 LAT 48-577N LON 67-090W	MONTH 6 DAY 30	MXSAMPC . NO.DPTH	00 5	WAVES 1 24X0 WAVES 2 00X0 WND-DIR 240 WND-SPD 02	WET B WW-CODE	13.8	
MARSO SO 151				BARO 1011.0	CLD-AMT	6	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
130	0000	114 8	26885		2043	14852
130	0010	0589	28304		2231	14660
130	0020	0424	28873		2293	14600
130	0030	0283	29632		2365	14551
130	0040	0254 8	30138		2407	14547

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030	1140 B 0589 0424 0283	26885 28304 28873 29632		2231 2293	14852 14660 14600 14551	0000 0064 0117 0163	00000 00003 00011 00022	7331 5533 4944 4257

C-REF-NO 005			82	WAVES 1 23X0	AIR T	13.5	VIS
CONS. NO 053	MONTH 6	MXSAMPC	01	WAVES 2 00X0	WET B 1	13.5	STN
LAT 48-585N	DAY 30	NO. DPTH	7	WND-DIR 230	WW-CODE	0.2	
LON 67-094W	HR 13.6	W-COLOR		WND-SPD 02			
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	6	HW

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
0000	116 B	27244	2068	14864
0010	0456 B	28682	2275	14609
0015	0386 C	29016	2307	14585
0020	0352	29118	2318	14572
0030	0259	29631	2366	14540
0050	0163	31328	2508	14524
0074	-0040	32257	2593	14449
	0000 0010 0015 0020 0030 0050	0000 116 8 0010 0456 B 0015 0386 C 0020 0352 0030 0259 0050 0163	0000 116 8 27244 0010 0456 B 28682 0015 0386 C 29016 0020 0352 29118 0030 0259 29631 0050 0163 31328	0000 116 8 27244 2068 0010 0456 8 28682 2275 0015 0386 C 29016 2307 0020 0352 29118 2318 0030 0259 29631 2366 0050 0163 31328 2508

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	27244		2068	14864	0000	00000	7097
0010	0456 B	28682		2275	14609	0061	00003	5117
0020	0352	29118		2318	14572	0110	00010	4699
0030	0259	29631		2366	14540	0155	00021	4240
0050	0163	31328		2508	14524	0227	00049	2887
0075	-0047	3230 E		2597	14446	0289	00088	2038

C-REF-NO 005	YR 1963	DEPTH	132	WAVES 1 23X0	AIR T	13.6	VIS
CONS. NO 054	MONTH 6	MXSAMPC	01	WAVES 2 00X0	WET B	13.6	STN
LAT 48-596N	DAY 30	NO.DPTH	8	WND-DIR 230	WW-CODE	02	
LON 67-100W	HR 14.1	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	6	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
141	0000	112	8	27499		2094	14852
141	0010	0443		28739		2280	14605
141	0020	0263	8	29514		2357	14539
141	0029	0211		29939		2394	14523
141	0049	0132		31576		2530	14514
141	0073	-0038	В	32208		2589	14449
141	0098	-0048	В	32431		2608	14451
141	0122	0000	8	32765		2633	14482

DEPTH	TEMP	SAL O.	XYGEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030 0050	1120 B 0443 0263 B 0207 0124	27499 28739 29514 3002 E 3162 C	2094 2280 2357 2401 2534	14852 14605 14539 14523 14511	0000 0060 0107 0148 0214	00000 00003 00010 00020 00046	6843 5062 4332 3909 2641
0100	-0043 B -0064 F	3223 C 3255 I	2591 2618	14447	0274 0323	00083 00127	2093 1841

C-REF-NO 005	YR 1963	DEPTH	190	WAVES 1 24X0	AIR T 1	3.5	VIS
CONS. NO 055	MONTH 6	MXSAMPC	02	WAVES 2 00X0	WET B 1	3.5	STN
LAT 49-007N	DAY 30	NO.DPTH	1.1	WND-DIR 240	WW-CODE	02	
LON 67-115W	HR 14.8	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	5	HW

UBSERVED

GMT	DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND
148 148	0000	109 B 0675 D	27224 28725	2078	14838
148	0020	0247	29510	2358	14532
148	0030	0223	30750	2458	14540
148	0050	0094	31872	2556	14501
148	0074	-0056	32193	2589	14440
148	0099	-0030 C	32540	2616	14461
148	0124	0022	32830	2637	14493
148	0148	0128 B	33254	2665	14551
148	0173	0221 B	33573	2684	14601
148	0183	0268	33775	2696	14626

DEPTH	TEMP	S A L OXYGEN	SGMT . SOUND	DELTA-D	POT.EN	SVA
0000	1090 B	27224	2078 14838	0000	00000	7000
0010	0675 D	28725	2254 14700	0062	00003 '	5312
0020	0247	29510	2358 14532	0110	00010	4324
0030	0223	30750	2458 14540	0149	00020	3366
0050	0094	31872	2556 14501	0207	00042	2433
0075	-0057	32207	2590 14440	0264	00078	2106
0100	-0029 C	32551	2617 14462	0314	00123	1854
0125	0026	32847	2638 14496	0358	00173	1652
0150	0135 B	3328 B	2666 14555	0396	00227	1390
0175	0234 B	3364 F	2688 14608	0429	00281	1189

C-REF-NO 005				WAVES 1 22X0			
CONS. NO 056	MONTH 6	MXSAMPO		WAVES 2 00X0			SIN
LAT 49-049N	DAY 30	NO. DPTH	alle 1	WNU-DIR 220			
LON 67-141W	HR 15.7	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	5	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
157	0000	122	B	28655		2166	14902
157	0010	1200		29575		2241	14908
157	0020	0387		31082		2471	14614
157	0030	0164		31657		2535	14526
157	0050	0076	C	31951		2563	14494
157	0075	-0035		32241		2592	14451
157	0100	-0046	C	32408		2606	14452
157	0124	-0017		32697		2628	14474
1.57	0149	0086		33114		2656	14530
157	0174	0215	В	33566		2683	14598
157	0199	0320		33935		2704	14653
157	0224	0373	В	34139		2715	14682
157	0249	0415	B	343C1		2724	14706
157	0299	(1464		34609		2743	14739

DEPTH	T E M	b	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1220	В	28655		2166	14902	0000	00000	6154
0010	1200		29575		2241	14908	0058	00003	5441
0020	0387		31082		2471	14614	0102	00009	3243
0030	0164		31657		2535	14526	0131	00016	2638
0050	C076	C	31951		2563	14494	0182	00037	2363
0075	-0035		32241		2592	14451	0238	00072	2089
0100	-(,46	C	32408		2606	14452	0289	00118	1956
0125	-(014		32714		2629	14475	0335	00171	1734
0150	0091		33133		2657	14533	0375	00227	1471
0175	0220	B	33583		2684	14601	0409	00283	1221
0200	0323		33945		2705	14654	0438	00338	1037
0225	0375	15	34146		2715	14683	0463	00392	0939
0250	0416	B	3432 B		2725	14707	0485	00447	0855
0300	0465		34614		2743	14740	0524	00556	0691

C-REF-NO 005	YR 1963	DEPTH	320	WAVES 1 22X0	AIR T	14.9	VIS
CONS. NO 057	MONTH 6	MXSAMPD	0.3	WAVES 2 00X0	WET B 1	14.8	STN
LAT 49-088N	DAY 30	NO.DPTH	14	WND-DIR 220	WW-CODE	02	
LON 67-169W	HR 16.7	W-COLOR		WND-SPD 03	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	6	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT SOUND
167	0000	122 B	27872	2106 14893
167 167	0010	0908 0436	29864 30970	2312 14806 2458 14633
167	0030	0256	31358	2504 14562
167 167	0050	-0040 -	32001 32217	2569 14478 2590 14449
167	0099	-0056 B	32426	2608 14448
167 167	0124 0148	-0004 C	32762 33158	2633 14480 2659 14537
167	0173	0236 C	33633	2687 14608 2702 14646
167 167	0193	0308 0370 B	33902 34110	2713 14680
167	0246	0427 C	34336	2725 14711 2744 14741
167	0308	0465	34626	2144 14141

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220	В	27872		2106	14893	0000	00000	6733
0010	0908		29864		2312	14806	0058	00002	4764
0020	0436		30970		2458	14633	0099	80000	3372
0030	0256		31358		2504	14562	0130	00016	2928
0050	0040		32001		2569	14478	0183	00037	2306
0075	-0039	D	32224		2591	14449	0238	00072	2100
0100	-0055	В	32437		2609	14448	0289	00118	1929
0125	-6000		32777		2634	14482	0335	00170	1692
0150	0111	_	33198		2661	14543	0374	00225	1434.
0175	0244	C	33664		2689	14613	0407	00280	1179
0200	0325		3396 C		2705	14655	0435	00333	1029
0225	0378	B	34139		2715	14685	0460	00387	0947
0250	0424	-	3433 H		2725	14711	0482	00442	0855
0300	0464		3459 B		2742	14739	0522	00553	0706

C-REF-NO 005	YR 1963	DEPTH	311	WAVES 1 24X1	AIR T 1	4.9	VIS
CONS. NO 058	MONTH 6	MXSAMPD	03	WAVES 2 00X0	WET B 1	4.8	STN
LAT 49-120N	DAY 30	NO. DPTH	14	WND-DIR 240	WW-CODE	02	
LON 67-200W	HR 17.8	W-COLOR		WND-SPD C5	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	7	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
178	0000	116 8	27321	2074	14865
178	0010	0633	30037	2362	14700
178	0019	0527	30670	2424	14667
178	0029	0301	31205	2488	14580
178	0048	0070	31880	2558	14490
178	0072	-0060 B	32220	2591	14438
178	0097	-0074	32402	2606	14439
178	0121	-0020	32657	2625	14471
178	0145	0132	33269	2666	14553
178	0169	0258 C	33713	2692	14618
178	0193	0330	33990	2707	14657
178	0217	0390 B	34198	2718	14689
178	0240	0432	34387	2729	14713
178	0291	0464	34619	2744	14738

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	27321	2074	14865	0000	00000	7040
0010	0633	30037	2362	14700	0057	00002	4279
0020	0505 B	30730	2431	14659	0096	80000	3621
0030	0284	31251	2493	14573	0130	00017	3030
0050	0054	3192 B	2562	14483	0184	00038	2373
0075	-0067 B	3224 B	2593	14436	0240	00073	2074
0100	-0072	3242 B	2608	14440	0291	00119	1935
0125	C003 B	3275 D	2631	14484	0337	00171	1713
0150	0162	33375	2672	14568	0375	00225	1333
0175	0279 B	33793	2696	14629	0406	00225	
0200	0349	34055	2711	14667	0432		1111
0225	0406	34267	2722			00326	0980
0250	0444	3444 C		14698	0456	00377	0880
0230	0.4.4.4	2444 6	2731	14721	0477	00428	0795

C-REF-NO 005	YR 1963	DEPTH	278	WAVES 1 24X1	AIR T	18.0	VIS
CONS. NO 059	MONTH 6	MXSAMPE	03	WAVES 2 00X0	WET 8	14.1	STN
LAT 49-171N	DAY 30	NO.DPTH	13	WND-DIR 240	WW-CODE	03	
LON 67-230W	HR 19.0	W-COLOR		WND-SPD 04	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SÁL	OXYGEN	SGMT	SOUND
190	0000	100 B	27807		2138	14812
190	0010	0670 E	30202		2371	14717
190	0019	0426	30882		2452	14627
190	0029	0278	31236		2493	14570
190	0049	-0017	31968		2569	14451
190	0073	-0054	32247		2593	14442
190	0097	-0052	32466		2611	14450
190	0122	0062 B	33015		2650	14514
190	0147	0212	33568		2684	14592
190	0170	0300 B	33879		2701	14639
190	0194	0368 B	34134		2715	14675
190	0219	0418 C	34334		2726	14703
190	0258	0456	34554		2739	14728

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000 B	27807	2138	14812	0000	00000	6428
0010	0670 E	30202	2371	14717	0053	00002	4199
0020	0408	3093 B	2457	14621	0091	80000	3379
0030	0260	3128 B	2497	14563	0123	00016	2992
0050	-0022	3199 B	2571	14449.	0177	00037	2290
0075	-0057	3226 B	2594	14441	0231	00072	2066
0100	-0042	3252 B	2615	14455	0281	00116	1869
0125	0081 B	3309 В	2654	14524	0323	00164	1499
0150	0225	33616	2687	14600	0357	00212	1199
0175	0316 8	33938	2705	14647	0385	00258	1035
0200	0382 B	34187	2718	14683	0410	00305	0913
0225	0427 B	34380	2729	14709	0432	00353	0817
0250	0452	34521	2737	14725	0451	00401	0742

C-REF-NO 005	YR 1963	DEPTH	265	WAVES 1 26X1	AIR T	15.5	VIS
CONS. NO 060	MONTH 6	MXSAMPD	С3	WAVES 2 00X0	WET B	12.9	STN
LAT 49-174N	DAY 30	NO.DPTH	14	WND-DIR 260	WW-CODE	01	
LON 67-214W	HR 20.4	W-COLOR		WND-SPD 05	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1011.5	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
204	0000	119 B	28784		2182	14893
204	0010	0654	30192		2372	14711
204	0020	0394 B	30957		2461	14615
204	0030	0282	31270		2495	14573
204	0049	0142	31682		2538	14519
204	0074	-0044 C	32203		2589	14446
204	0099	-0041 B	32503		2613	14456
204	0123	0066	33034		2651	14516
204	0149	0224	33601		2686	14599
204	0173	0338 D	34014		2709	14657
204	0197	0364	34153		2717	14674
204	0223	0422 D	34368		2728	14706
204	0248	0436 C	34450		2733	14717
204	0262	0451	34540		2739	14727

DEPTH	TEMP	SAL	OXYGEN.	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1190 B	28784		2182	14893	0000	00000	6007
0010	0654	30192		2372	14711	0051	00002	4187
0020	0394 B	30957		2461	14615	0089	80000	3344
0030	0282	31270		2495	14573	0121	00016	3014
0050	0133	31705		2540	14516	0177	00038	2582
0075	-0047 0	32215		2590	14445	0236	00075	2104
0100	-0038 B	32523		2615	14457	0286	00120	1871
0125	0078	33080		2654	14522	0329	00168	1503
0150	0230	33622		2687	14602	0363	00216	1198
0175	0341 8	3403 E	3	2710	14659	0390	00262	0989
0200	0371	34179		2719	14678	0414	00307	0908
0225	0424 [34375		2729	14707	0436	00355	0817
0250	0444 0	3448 E		2735	14721	0456	00403	0759

C-REF-NO 005	YR 1963	DEPTH	137	WAVES 1 27X0	AIR T 16.	5 VIS
CONS. NO 061	MONTH 6	MXSAMPE	C 1	WAVES 2 COXO	WET 8 13.	5 STN
LAT 49-188N	CAY 30	NO. DPTH	9	WND-DIR 270	WW-CODE	02
LON 67-235W	HR 21.2	W-COLOR		WND-SPD ' 05	CLD-TPE	4
MARSD SQ 151		W-TRNSP		BARO 1011.5	CLD-AMT	3 HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT SOUN	D
212 212 212 212 212 212 212 212 212	0000 0010 0015 0020 0030 0050 0074 0099	110 8 0660 H 0523 0434 C 0228 0078 -0050 -0042	29543 30363 30671 30894 31438 31800 32235 32523	2256 1487 2385 1471 2425 1466 2452 1463 2513 1455 2551 1449 2592 1444 2615 1445	5 4 1 1 2 4
212	0123	0800	33056	2652 1452	3

DEPTH	TEMP	S A L O	XYGEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1100 8	29543	2256	14871	0000	00000	5295
0010	0660 H	30363	2385	14715	0047	00002	4066
0020	0434 C	30894	2452	14631	0085	80000	3428
0030	0228	31438	2513	14551	0116	00016.	2847
0050	C078	31800	2551	14492	0170	00037	2479
0075	-0052	32246	2593	14443	0227	00073	2079
0100	-0043	3261 I	2622	14456	0276	00117	1801
0125	0096	3310 B	2654	14531	0318	00164	1501

C-REF-NO 005 CONS. NO 062 LAT 48-575N	MONTH 7	MXSAMPD	00	WAVES 1 06X1 WAVES 2 00X0 WND-DIR C60	WET B 12.4 WW-CODE 02	STN
LON 67-085W	HR 14.2	W-COLOR		WND-SPD · 07	CLD-TPE	
MARSD SQ 151		W-TRNSP		BARD 1017.5	CLD-AMT 0	HW

GMT	DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND
142	0000*	115 8	27184	2065	14859
142	0010	0876 C	28341	2198	14774
142	0020	0573	29287	2310	14668
142	0030	0296	29566	2358	14556
142	0040	0224 3	30365	2427	14536

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1150 8	27184		2065	14859	0000	00000	7126
0010	0876 C	28341		2198	14774	0065	00003	5854
0020	0573	29287		2310	14668	0118	00011	4777
0030	0296	29566		2358	14556	0164	00022	4316

C-REF-NO 005 CONS. NO 063	 	WAVES 1 49XX WAVES 2 00X0	 	
LAT 48-584N	 		 	2114
LON 67-092W MARSD SQ 151	 	WND-SPD BARO 1018.0		HIL

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
147	0000	125 B	27518		2073	14899
147	0010	1220	29278		2214	14912
147	0015	1038	29783		2285	14854
147	0020	0466	29722		2356	14629
147	0030	0510	30389		2404	14658
147	0050	0181 D	31325		2507	14532
147	0075	-0051	32253		2593	14444

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250 B	27518		2073	14899	0000	00000	7047
0010	1220	29278		2214	14912	0064	00003	5695
0020	0466	29722		2356	14629	0114	00010	4342
0030	0510	30389		2404	14658	0156	00021	3883
0050	0181 D	31325		2507	14532	0224	00048	2901
0075	-0051	32253		2593	14444	0286	00086	2074

CONS. NO 064	MONTH 7	MXSAMPC	01	WAVES 1 49X1 WAVES 2 00X0	WET B 11.	8 STN
LAT 48-595N	DAY 01	NO. DPTH	8	WND-DIR 990	WM-CODE C	12
LON 67-129W	HR 15.3	W-COLOR		WND-SPD	CLD-TPE	
MARSD SQ 151		W-TRNSP		BARO 1018.0	CLD-AMT	0 HW

GMT	DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND
153	0000	112 B	28024	2135	14859
153	0010	0896	28323	2193	14781
153	0020	0312	29956	2388	14566
153	0030	0245	30812	2461	14550
153	0050	0145	31771	2545	14522
153	0075	-0015	32172	2586	14459
153	0100	-0032	32519	2614	14460
153	0125	0015	32842	2638	14490

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	28024		2135	14859	0000	00000	6 45 4 5895
0010	0896 0312	28323 29956		2193 2388	14781 14566	0062 0112	00003 00010	4033
0030 0050	0245 0145	30812 31771		2461 2545	14550 14522	0149 0208	00019	3334 2539
0075	-0015	32172		2586	14459	0267	00080	2150
0100 0125	-0032 0015	32519 32842		2614	14460 14490	0317 0362	00125 00176	1876 1650

C-REF-NO 005	YR 1963	DEPTH	188	WAVES 1 49X0	AIR T	12.8	VIS
CONS. NO 065	MONTH 7	MXSAMPD	02	WAVES 2 00X0	WET B	11.8	STN
LAT 49-005N	DAY 01	NO.DPTH	10	WND-DIR 990	WW-CODE	03	
LON 67-121W	HR 15.7	W-COLOR		WND-SPD	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	2	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
157 157	0000	120 B	28456 28998	2154	14893
157	0020	0372	30228	2405	14596
157 157	0030 0050	0305 0097	31275 31879	2494 2556	14583
157	0075	-0011	32160	2584	14461
157 157	0100 0124	-0066 B	32461 32837	2611 2637	14444
157	0149	0142	33750	2704	14564
157	0174	0264 E			

DEPTH	TEM	Р	S A L OX	YGEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030 0050 0075 0100 0125 0150	1200 1027 0372 0305 0097 -0011 -0066 0027 0143 0269	ВВ	28456 28998 30228 31275 31879 32160 32461 3294 I	2154 2226 2405 2494 2556 2584 2611 2645	14893 14839 14596 14583 14502 14461 14444 14497	0000 0059 0107 0142 0196 0254 0305 0349	00000 00003 00010 00018 00040 00077 00122 00173	6266 5585 3875 3028 2429 2161 1907 1586

C-REF-NO 005	YR 1963	DEPTH	320	WAVES 1 04X0	AIR T	12.0	VIS
CONS. NO 066	MONTH 7	MXSAMPD	03	WAVES 2 00X0			STN
LAT 49-050N	DAY 01	NO. DPTH	15	WND-DIR 040	WW-CODE	03	
LON 67-153W	HR 16.6	W-COLOR		WND-SPD 05	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	3	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
166	0000	112 B	27281	2077	14850
166	0010	0325	29423	2345	14563
166	0020	0394	30985	2463	14615
166	0030	0186	31583	2527	14535
166	0050	0068	31933	2562	14490
166	0074	-0025 B	32220	2590	14455
166	0099	-0038 C	32362	2602	14455
166	0124	-0037	32611	2622	14463
166	0148	0086	33106	2655	14530
166	0173	0230 B	33617	2686	14605
166	0198	0302	33877	2701	14644
166	0224	0352 C	34042	2709	14672
166	0248	0432 C	34368	2727	14714
166	0298	0464	34612	2743	14739
166	0313	0464	34615	2743	14742

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120	В	27281		2077	14850	0000	00000	7005
0010	0325		29423		2345	14563	0057	00002	4446
0020	0394		30985		2463	14615	0096	00008	3322
0030	0186		31583		2527	14535	0127	00016	2708
0050	0068		31933		2562	14490	0178	00036	2372
0075	-0026	8	32226		2590	14455	0234	00072	2104
0100	-0039	C	32368		2602	14455	0286	00118	1989
0125	-0033		32629		2623	14465	0333	00172	1791
0150	0099		33152		2658	14537	0374	00230	1461
0175	0238	В	33644		2688	14609	0408	00285	1188
0200	0306		3389 B		2702	14646	0436	00339	1065
0225	0355	C	34055		2710	14674	0462	00396	0987
0250	0435	C	34387		2728	14716	0485	00451	0823
0300	0472	C	3463 C		2743	14743	0523	00558	0689

C-REF-NO 005	YR 1963	DEPTH	322	WAVES 1 04X0	AIR T 1	1.8 VIS
CONS. NO 067	MONTH 7	MXSAMPD	03	WAVES 2 00X0	WET B 1	1.0 STN
LAT 49-088N	DAY 01	NO.DPTH	15	WND-DIR 040	WW-CODE	02
LON 67-170W	HR 17.5	W-COLOR		WND-SPD 05	CLD-TPE	7
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	3 HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
175	0000*	100	В	27634		2124	14810
175	0010	0447	В	29261		2321	14613
175	0020	0268		30480		2433	14554
175	0030	0298		31439		2507	14582
175	0050			32016			
175	0075	-0078		32190		2589	14430
175	0100	-0075		32362		2603	14438
175	0125	-0038		32598		2621	14463
175	0150	0082		33101		2655	14529
175	0175	0254	C	33694		2691	14617
175	0199	0348		34039		2710	14666
175	0224	0388	C	34192		2718	14689
175	0249	0426	C	34352		2727	14712
175	0299	0466		34626		2744	14740
175	0314	0466		34625		2744	14743

DEPTH	TEM	Р	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000	В	27634		2124	14810	0000	00000	6557
0010	0447	В	29261		2321	14613	0056	00002	4672
0020	0268		30480		2433	14554	0098	80000	3602
0030	0298		31439		2507	14582	0131	00017	2899
0050	0152	I	32016		2564	14529	0183	00038	2357
0075	-0078		32190		2589	14430	0240	00073	2112
0100	-0075		32362		2603	14438	0291	00119	1980
0125	-0038		32598		2621	14463	0339	00174	1812,
0150	0082		33101		2655	14529	0380	00232	1490
0175	0254	С	33694		2691	14617	0414	00288	1165
0200	0350		34047		2710	14667	0441	00339	0987
0225	0390	C	34198		2718	14690	0465	00392	0914
0250	0427	C	34360		2727	14713	0487	00445	0835
0300	0465		3461 E		2742	14740	0526	00554	0698

C-REF-NO 005	YR 1963	DEPTH	296	WAVES 1 04X0	AIR T	12.5	VIS
				WAVES 2 00X0			
LAT 49-139N	DAY 01	NO. DPTH	14	WND-DIR 040	WW-CODE	03	
LON 67-197W	HR 18.4	W-COLOR		WND-SPD 01	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 1017.0	CLD-AMT	4	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
184	0000	100	8	27886		2144	14813
184	0010	0313	D	29656		2364	14561
184	0020	0263		30478		2433	14552
184	0030	0152		31172		2497	14514
184	0050	0002		32022		2573	14461
184	0075	-0084	В	32269		2596	14428
184	0100	-0042	В	32514		2614	14455
184	0124	0005		32742		2631	14484
184	0149	0141		33306		2668	14558
184	0174	0278	C	33788		2696	14629
184	0199	0353		34075		2712	14669
184	0224	0401	B	34233		2720	14696
184	0248	0450		34479		2734	14723
184	0290	0466		34638		2745	14739

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000 B	27886		2144	14813	0000	00000	6370
0010	0313 D	29656		2364	14561	0053	00002	4261
0020	0263	30478		2433	14552	0093	80000	3600
0030	0152	31172		2497	14514	0126	00016	2999
0050	C002	32022		2573	14461	0179	00037	2273
0075	-0084 B	32269		2596	14428	0233	00072	2050
0100	-0042 B	32514		2614	14455	0283	00116	1876
0125	0010	32762		2632	14487	0328	00168	1709
0150	0147	33328		2669	14561	0367	00222	1359
0175	G282 C	33803		2697	14631	0398	00273	1106
0200	0355	34082		2712	14670	0424	00323	0966
0225	0403 В	34243		2720	14697	0447	00374	0894
0250	0445 C	3444 I		2732	14721	0469	00426	0792

C-REF-NO 005	YR 1963	DEPTH	285	WAVES 1 04X0 -	AIR T	11.5	VIS
CONS. NO 069	MONTH 7	MXSAMPD	03	WAVES 2 00X0	WET B	10.6	STN
LAT 49-170N	DAY 01	NO.DPTH	14	WND-DIR 040	WW-CODE	02	
LON 67-223W	HR 19.5	W-COLOR		WND-SPD 01	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1016.0	CLD-AMT	4	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
195	0000	091	8	27678		2141	14777
195	0010	0924		29660		2293	14809
195	0020	0435		30828		2446	14631
195	0030	0278		31292		2497	14571
195	0050	0036		31848		2557	14474
195	0075	-0049		32255		2594	14444
195	0100	-0046	В	32508		2614	14454
195	0125	0041	В	32941		2645	14504
195	0150	0208		33535		2682	14591
195	0175	0318		33926		2703	14648
195	0199	0378		34167		2717	14681
195	0224	0427	В	34376		2728	14708
195	0249	0460	C	34559		2739	14729
195	0284	0460		34588		2742	14735

DEPTH	TEM	Р	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0910	В	27678		2141	14777	0000	00000	6395
0010	0924		29660		2293	14809	0057	00003	4939
0020	0435		30828		2446	14631	0099	00009	3478
0030	0278		31292		2497	14571	0132	00017	2994
0050	0036		31848		2557	14474	0186	00039	2421
0075	-0049		32255		2594	14444	0243	00074	2073
0100	-0046	В	32508		2614	14454	0292	00119	1879
0125	0041	В	32941		2645	14504	0336	00168	1588
0150	0208		33535		2682	14591	0372	00218	1247
0175	0318		33926		2703	14648	0401	00266	1046
0200	0380		34176		2717	14682	0425	00314	0919
0225	0429	В	34385		2729	14709	0447	00361	0815
0250	0458	В	3454 E		2738	14728	0467	00409	0733

C-REF-NO 005	YR 1963	DEPTH	232	WAVES 1	04X0 ·	AIR T	12.2	VIS
CONS. NO 070	MONTH 7	MXSAMPD	02	WAVES 2	00X0	WET-8	11.2	STN
LAT 49-181N			13	WND-DIR	040	WW-CODE	02	
LUN 67-230W	HR 20.3	W-COLOR		WND-SPD				
MARSD SQ 151		W-TRNSP		BARO 1	015.5	CLD-AMT	4	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
203	0000	103 B 1033	28822 29482	2212	14836 14847
203	0015	0933 B	29838	2306	14815
203	0030	0250	31377	2506	14560
203	0045	0153 -0050	31661 32253	2536 2593 ·	14523 14444
203	0100	-0029 0130	32582 33271	2619 2666	14462
203	0150	0259 0320 C	33 711 33931	2691 2704	14615
203	0200	0369	34145 34340	2716 2727	14677
203	0223	U-711	7770	E. 1 E. 1	TALOT

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1030 B	28822		2212	14836	0000	00000	5719
0010	1033	29482		2262	14847	0055	00003	5235
0020	0374 0	30996		2465	14607	0098	00009	3296
0030	0250	31377		2506	14560	0129	00017	2909
0050	0111 0	3177 B		2547	14507	0184	00039	2523
0075	-0050	32253		2593	14444	0241	00075	2074
0100	-0029	32582		2619	14462	0291	00119	1830
0125	0130	33271		2666	14548	0331	00165	1391
0150	0259	33711		2691	14615	0363	00210	1155
0175	0320 0	33931		2704	14649	0391	00256	1044
0200	0369	34145		2716	14677	0416	00303	0931
0225	0411	34340		2727	14701	0438	00352	0830

C-REF-ND 005	YR 1963	DEPTH	101	WAVES 1	04X0	AIR T	13.9	VIS
CONS. NO 071	MONTH 7	MXSAMPD	01	WAVES 2	00X0	WET B	10.9	STN
LAT 49-190N	DAY 01	NO.DPTH	6	WND-DIR	040	WW-CODE	02	
LON 67-234W	HR 20.9	W-COLOR		WND-SPD	02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO		CLD-AMT	5	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
209	0000	112	В	28945		2206	14870
209	0010	1047		29421		2255	14852
209	0020	0413		30904		2455	14622
209	0030	0234	В	31438		2512	14554
209	0050	0101		31815		2551	14503
209	0074	-0059	В	32294		2597	14440

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	28945		2206	14870	0000	00000	5771
0010	1047	29421		2255	14852	0056	00003	5302
0020	0413	30904		2455	14622	0099	00009	3401
0030	0234 B	31438		2512.	14554	0131	00017	2851
0050	0101	31815		2551	14503	0184	00038	2480
0075	-0060 B	3230 C		2597	14440	0241	00074	2036

C-REF-NO 005	YR 1963	DEPTH	132	WAVES 1 04X0	AIR T	15.5	VIS
				WAVES 2 00X0			
LAT 49-184N	DAY 01	NO.DPTH	8	WND-DIR 040	WW-CODE	03	
LON 67-236W	HR 23.8	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151	,	W-TRNSP		BARO 1013.0	CLD-AMT	6	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT.	SOUND
238 238 238 238	0000° 0010 0020 0030	116 0870 0474 0267	8	29484 29957 30769 31335		2241 2325 2438 2501	14891 14792 14646 14567
238 238 238 238	0050 0075 0100 0125	0112	В	31767 32180 32986 32445		2547 2587 2652 2604	14507 14446 14459 14504

DEPTH	T L M P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 в	29484		2241	14891	0000	00000	5438
0010	0870	29957		2325	14792	0051	00002	4641
0020	0474	30769		2438	14646	0092	00008	3560
0030	0267	31335		2501	14567	0125	00017	2953
0050	0112	31767		2547	14507	0180	00039	2523
0075	-0044 B	32180		2587	14446	0238	00076	2132
0100	-0048	32986		2652	14459	0284	00116	1513
0125	0056	32445		2604	14504	0328	00167	1974

C-REF-NO 005	YR 1963	DEPTH	260	WAVES 1 04X0	AIR T 1	13.8	VIS
CONS. NO 073	MONTH 7	MXSAMPD	02	WAVES 2 00X0	WET B 1	11.8	STN
LAT 49-174N	DAY 02	NO.DPTH	14	WND-DIR 040	WW-CODE	02	
LON 67-232W	HR 00.4	W-COLOR		WND-SPD · 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1013.0	CLD-AMT	6	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
004	0000	116 B	29470	2240	14891
004	0010	0968	29787	2296	14827
004	0015	0638	30323	2384	14707
004	0020	0352	31073	2474	14599
004	0030	0330	31177	2484	14592
004	0049	0100	31784	2549	14502
004	0074	-0042	32199	2589	14447
004	0099	-0064	32434	2609	14444
004	0123	0026	32888	2641	14496
004	0148	0178	33436	2676	14576
004	0173	0302 C	33884	2702	14640
004	0197	0374	34186	2719	14679
004	0222	0404	34277	2723	14697
004	0232	0417 B	34351	2727	14705

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	29470	2240	14891	0000	00000	5448
0010	0968	29787	2296	14827	0052	00003	4909
0020	0352	31073	2474	14599	0093	80000	3219
0030	0330	31177	2484	14592	0125	00016	3123
0050	0091	31807	2551	14499	0181	00039	2481
0075	-0045	32208	2590	14446	0239	00075	2110
0100	-0062	32450	2610	14445	0290	00120	1917
0125	0038	32932	2644	14502	0334	00171	1593
0150	0189	33476	2678	14582	0370	00221	1277
0175	0310 C	33916	2703	14644	0399	00270	1046
0200	0379	3420 B	2719	14682	0424	00317	0900
0225	0411	3432 E	2726	14701	0446	00365	0844

C-REF-NO 005	YR 1963	DEPTH	300	WAVES 1 04X1	AIR T	13.5	VIS
CUNS. NO 074	MONTH 7	MXSAMPD	03	WAVES 2 00X0	WET B	11.2	STN
LAT 49-164N				WND-DIR 040	WW-CODE	02	
LON 67-230W	HR 01.0	W-COLOR		WND-SPD 05	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARD 1012.0	CLD-AMT	6	HW

	017
010 0000 111 8 28982 2211 14	867
010 0010 0872 C 29920 2321 14	793
010 0020 0393 B 30983 2463 14	615
010 0029 0230 31352 2506 14	551
010 0049 0054 31807 2553 14	481
010 0073 -0090 B 32234 2593 14	425
010 0098 -0039 C 32490 2612 14	456
010 0122 0014 32807 2635 14	489
010 0146 0208 33532 2681 14	590
010 0171 0302 C 33872 2701 14	640
010 0196 0362 34114 2714 14	673
010 0220 0406 34286 2723 14	698
010 0244 0444 B 34460 2733 14	720
010 0281 0459 34586 2742 14	734

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1110	В	28982		2211	14867	0000	00000	5727
0010	0872	C	29920		2321	14793	0052	00002	4671
0020	0393	В	30983		2463	14615	0092	00008	3323
0030	0218		31382		2509	14546	0124	00016	2882
0050	0045		31828		2555	14478	0177	00038	2441
0075	-0090	В	32257		2595	14425	0234	00073	2057
0100	-0037	C	3251 B		2613	14458	0283	00117	1883
0125	0037	Ð	3290 E		2641	14501	9327	00168	1620
0150	0228		3360 C		2685	14600	0363	00218	1210
0175	0313	C	33916		2703	14646	0391	00265	1049
0200	0370		34145		2716	14677	0416	00313	0933
0225	0415		34325		2726	14703	0439	00361	0845
0250	0446	В	3447 C		2734	14722	0459	00411	0770

C-REF-NO 005	YR 1963	DEPTH 3	16 WAY	/ES 1	04X1	AIR T	11.5	VIS
CONS. NO 075	MONTH 7	MXSAMPD	03 WAY	VES 2	00X0	WET B	10.7	STN
LAT 49-123N	DAY 02	NO.DPTH	15 WNE	D-DIR	040	WW-CODE	01	
LON 67-201W	.HR 02.0	W-COLOR	WNE)-SPD	05	CLD-TPE	7	
MARSD SQ 151		W-TRNSP	BAF	RO 1	012.0	CLD-AMT	3	HW

GMT	DEPTH	TEMP	S A L DXYGEN	SGMT SO	UND
020	0000	096 B	27524	2122 14	794
020	0010	0298 B	29756	2373 145	556
020	0020	0196	30380	2430 145	521
020	0030	0126	31233	2503 145	503
020	0050	-0008	32004	2572 14	456
020	0074	-0077	32230	2593 14	431
C20	0099	-0041 B	32509	2614 14	456
020	0124	0004	32768	2633 14	484
020	0149	0117	33224	2663 14	546
020	0174	0256 B	33699	2691 14	618
020	0199	0336	34004	2708 14	661
020	0224	0408 C	34268	2722 14	699
020	0248	0436	34409	2730 14	717
020	0298	0466	34621	2744 14	740
020	0308	0465	34621	2744 14	741

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0960	В	27524		2122	14794	0000	00000	6580
0010	0298	В	29756		2373	14556	0054	00002	4174
0020	0196		30380		2430	14521	0093	80000	3629
0030	0126		31233		2503	14503	0126	00016	2938
0050	-0008		32004		2572	14456	0179	00037	2282
0075	-0077		32241		2593	14431	0233	00072	2074
0100	-0040	8	32518		2614	14456	0283	00116	1874
0125	0008		32784		2634	14486	0328	00168	1691
0150	0123		33244		2664	14549	0367	00222	1406
0175	0260	В	33713		2692	14620	0399	00276	1155
0200	0339		34016		2709	14662	0426	00328	1000
0225	0410	C	34275		2722	14700	0450	00379	0877
0250	0438		34422		2731	14718	0471	00430	0800
0300	0465		3461 B		2743	14740	0509	00536	0692

C-REF-NO 005 CONS. NO 076	MONTH 7	MXSAMPD	03	WAVES 1 04X1 WAVES 2 00X0 WND-DIR 040	WET B 1	11.0	VIS
LAT 49-082N LON 67-170W MARSD SQ 151	HR 03.0	W-COLOR		WND-SPD 05 BARO 1012.0	CLD-TPE	X	

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
030	0000	107	В	27269		2085	14831
C30	0010	0398		29289		2328	14593
C30	0019	0198		30305		2424	14572
030	0029	0274		31517		2515	
030	0048	0005		31950		2567	14461
030	0071	-0066	В	32222		2592	14435
030	0095	-0085	B	32380		2605	14433
030	0119	-0038		32587		2620	14461
030	0143	0074		33048		2652	14523
030	0166	0186	C	33457		2677	14583
030	0190	0280		33802		2697	14632
030	0214	0371	B	34097		2712	14679
030	0238	0416		34312		2724	14705
030	0285	0443		34448		2732	14726
030	0300	0459		34502		2735	14736

DEPTH	TEMP	S A L UXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1070 B	27269	2085	14831	0000	00000	6935
0010	0398	29289	2328	14593	0058	00002	4607
0020	0202 D	3044 D	2435	14524	0099	80000	3588
0030	0264 C	3157 F	2521	14569	0131	00016	2771
0050	-0008 B	31981	2570	14456	0182	00037	2300
0075	-0013 B	3225 B	2594	14433	0237	00072	2067
0100	-0081 B	3241 B	2607	14436	0287	00117	1941
0125	-0013	3269 C	2627	14475	0334	00170	1751
0150	0109	33178	2660	14542	0374	00226	1448
0175	0223 B	33594	2685	14602	0408	00282	1214
0200	0321	33933	2704	14653	0436	00336	1045
0225	0396	34207	2718	14693	0461	00390	0914
0250	0425 B	3436 E	2727	14712	0483	00444	0831
0300	6459	34502	2735	14736	0523	00557	0768

C-REF-NO 005	YR 1963	DEPTH .	316	WAVES 1 01X0	AIR T 12.2	VIS
CONS. NO 077	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B 11.2	STN
LAT 49-050N	DAY 02	NO.DPTH	15	WND-DIR 010	WW-CODE 02	
- LON 67-160W	HR 04.3	W-COLOR		WND-SPD 05	CLD-TPE X	
MARSD SQ 151		W-TRNSP		BARO 1010.0	CLD-AMT 9	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
043	0000*	102 B	27428	2105	14815
043	0009	0939 B	27857	2151	14792
043	0017	0294	29601	2361	14553
043	0026	0334	31115	2478	14592
043	0043	0100	31847	2554	14502
043	0064	-0008	32151	2584	14460
043	0086	-0042 C	32249	2593	14449
043	0107	-0058	32487	2613	14449
043	0129	-0006	32748	2632	14480
043	0150	0105 B	33157	2658	14540
043	0169	0224	33601	2686	14602
043	0193	0300 B	33841	2698	14642
043	0214	0375 B	34129	2714	14681
043	0257	0455	34538	2738	14728
043	0274	0465	34608	2743	14736

DEPTH	T E M P	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1020 B	27428	2105	14815	0000	00000	6740
0010	Q856 I	2805 I	2178	14762	0064	00003	6043
0020	0269 I	3018 D	2409	14550	0114	00010	3834
0030	0291 H	3143 I	2507	14579	0147	00019	2899
0050	0049 B	3200 F	2568	14482	0200	00039	2314
0075	-0031 B	3220 E	2589	14452	0256	00075	2118
0100	-0057 B	3240 B	2605	14447	0307	00121	1958
0125	-0021	3269 B	2628	14472	0354	00174	1747,
0150	0105 B	33157	2658	14540	0394	00231	1461
0175	0246 B	3367 E	2690	14614	0427	00285	1174
0200	0326 B	3394 B	2704	14656	0455	00339	1047
0225	0404 B	34261	2722	14697	0480	00392	0882
0250	0448	34491	2735	14723	0500	00442	0759

C-REF-NO 005		WAVES 1 02X0 WAVES 2 00X0			
LAT 49-008N		WND-DIR 020	WW-CODE	02	
LON 67-115W MARSD SQ 151		WND-SPD 02 BARO 1009.0			HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
053	0000	120	В	28509		2159	14893
053	0010	1160		29440		2238	14893
053	0019	C685		30419		2386	14728
053	0029	0291		31251		2493	14576
053	0049	0106		31829		2552	14505
053	0073	-0036		32155		2585	14449
053	0097	-0036	8	32461		2610	14457
053	0122	0022	B	32815		2636	14493
053	0146	0152		33328		2669	14562
053	0170	0294	C	33830		2698	14636
053	0185	0330		33980		2707	14656

DEPTH	TEMP	S A L OXYGEN	SGMT.	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	28509	2159	14893	0000	00000	6227
0010	1160	29440	2238	14893	0059	00003	5472
0020	0638	30516	2399	14710	0106	00010	3926
0030	0271 C	3130 C	2498	14568	0141	00018	2983
0050	0098	31847	2554	14502	0195	00040	2454
0075	-6040	32180	2587	14448	0253	00077	2133
0100	-0033 B	32498	2612	14460	0304	00122	1892
0125	0036 B	32875	2640	14500	0348	00172	1636
0150	0179 B	3342 C	2675	14576	0385	00224	1309
0175	C298 D	3386 F	2700	14639	0415	00274	1077

C-REF-NO 005	YR 1963	DEPTH	125	WAVES 1 02X0	AIR T 1	2.6 VIS
CUNS. NO 079	MONTH 7	MXSAMPD	01	WAVES 2 00X0	WET B 1	2.3 STN
LAT 48-590N	DAY 02	NO.DPTH	9	WND-DIR 020	WW-CODE	02
LON 67-090W	HR 06.2	W-COLOR		WND-SPD 02	CLD-TPE	X
MARSD SQ 151		W-TRNSP		BARO 1010.0	CLD-AMT	9 HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
062 062	0000 0010	125 1168	8	28792 29611		2171 2249	14914 14898
062 062	0015 0020	0796 l 0533	В	29854 30061		2327 2376	14763
062	0030 0050	0260	В	30800 31815		2459 2550	14557 14511
062	0075	-0042 1	В	32188		2588	14447
062 062	0100	-0054 0135		32487 33274		2612 2666	14450

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250 B	28792	2171	14914	0000	00000	6105
0010	1168	29611	2249	14897	0057	00003	5359
0020	0533	30061	2376	14661	0105	00010	4153
0030	0260 B	30800	2459	14557	0143	00019	3354
0050	0118	31815	2550	14511	0202	00042	2490
0075	-0042 B	32188	2588	14447	0260	00079	2127
0100	-0054	32487	2612	14449	0310	00124	1892
0125	0146	3331 8	2668	14556	0351	00171	1374

C-REF-NO 005 CONS. NO 080				WAVES 1 02X0 WAVES 2 00X0		
LAT 48-586N	DAY 02	NO.DPTH	_	WND-DIR G20		
LON 67-098W MARSD SQ 151				WND-SPD 02 BARO 1010.0		HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
068 068	0000	127 B	28841 29726		2171 2257	14922 14902
068	0015	0591 C	29436		2320	14676
068	0020	0668 D	30104		2363	14717
068	0030	0365	30675		2441	14600
068	0050	0121 B	31827		2551	14512
068	0075	-0048	32201		2589	14444
068	0090	-0035	32534		2616	14457

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1270 B	28841	2171	14922	0000	00000	6104
0010	1178	29726	2257	14902	0057	00003	5291
0020	0668 D	30104	2363	14717	0105	00010	4271
0030	0365	30675	2441	14600	0144	00020	3532
0050	0121 B	31827	2551	14512	0205	00043	2482
0075	-0048	32201	2589	14444	0263	08000	2114

C-REF-NO 005	YR 1963	DEPTH	35	WAVES 1 21X1	AIR T 1	5.0	VIS
CUNS. NO 081	MONTH 7	MXSAMPC	0.0	WAVES 2 00X0	WET B 1	4.3	STN
LAT 48-573N	DAY 02	NO.DPTH	5	WND-DIR 210	WW-CODE	25	
LON 67-092W	HR 07.3	W-COLOR		WND-SPD 07	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1010.0	CLD-AMT	9	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
073	0000	114	8	28078		2136	14867
073	0010	0990	G,	28746		2212	14822
073	0015	0385	E	29077		2312	14585
073	0020	0299		29513		2354	14555
073	0030	0224		30519		2440	14537

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140 В	28078		2136	14867	0000	00000	6446
0010	0990 G	28746		2212	14822	0061	00003	5716
0020	0299	29513		2354	14555	0112	00010	4359
0030	0224	30519		2440	14537	0151	00020	3542

C-REF-NO 005	YR 1963	DEPTH	60	WAVES 1 18X2	AIR T 1	6.0	VIS
CONS. NO 082	MONTH 7	MXSAMPE	0.0	WAVES 2 00X0	WET B 1	4.4	STN
LAT 48-574N	DAY 02	NO.DPTH	6	WND-DIR 180	WW-CODE	01	
LON 67-093W	HR 09.2	W-COLOR		WND-SPD 07	CLD-TPE	3	
MARSD SQ 151		W-TRNSP		BARO 1008.0	C LD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
092	0000	111 8	28276		2156	14858
092	0010	1114	28762		2193	14868
092	0014	0700 B	29874		2341	14726
092	0019	0284	29606		2363	14549
092	0029	0211	30350		2427	14529
092	0048	0138	31785		2546	14519

DEPTH	TEMP	S A L OXYG	EN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1110 в	28276	2156	14858	0000	00000	6251
0010	1114	28762	2193	14868	0061	00003	5898
0020	0253 G	2964 I	2366	14536	0112	00010	4228
0030	-0017 I	3004 I	2414	14421	0152	00021	3782

C-REF-NO 005	YR 1963	DEPTH	86	WAVES 1 18X2	AIR T 13.9	VIS
CONS. NO 083	MONTH 7	MXSAMPC	01	WAVES 2 00X0	WET B 13.4	STN
LAT 48-584N	DAY 02	NO.DPTH	7	WND-DIR 280	WW-CODE 03	
LON 67-094W	HR 09.7	W-COLOR		WND-SPD 02	CLD-TPE 4	
MARSD SQ 151		W-TRNSP		BARO 1008.0	CLD-AMT 8	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
097	0000	116	В	28456		2162	14879
097	0010	1182		29729		2256	14904
097	0014	0552	C	29594		2337	14662
097	0019	0547		30261		2390	14670
097	0029	0368		30742		2446	1.4602
097	0048	0117	В	31848		2553	14510
097	0072	-0044	C	32293		2596	14447

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	28456	2162	14879	0000	00000	6199
0010	1182	29729	-2256	14904	0058	00003	5296
0020	0533 B	3033 F	2397	14665	0104	00009	3949
0030	0352	3081 C	2452	14597	0141	00019	3422
0050	0096	3176 I	2547	14500	0201	00042	2519

C-REE-NO 005	YR 1963	DEPTH	126	WAVES 1 32X1	AIR T 1	2.9	VIS
				WAVES 2 00X0			
LAT 48-592N	DAY 02	NO.DPTH	9	WND-DIR 320	WW-CODE	02	
LON 67-104W	HR 10.3	W-COLOR		WND-SPD C2	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1008.0	CLD-AMT	8	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
103	0000	125	8	28867		2177	14915
103	0010	1100	C	29627		2262	14873
103	0015	0944	В	30000		2317	14822
103	0020	0414		30028		2385	14611
103	0030	0316		31241		2490	14587
103	0050	0115		31809		2550	14509
103	0074	-0058	В	32218		2591	14440
103	0099	-0034		32513		2614	14459
103	0119	0002	В	32788		2634	14483

DEPTH	TEMP	S A L OXYGE	N SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250 B	28867	2177	14915	0000	00000	6049
0010	1100 C	29627	2262	14873	0057	00003	5234
0020	0414	30028	2385	14611	0103	00010	4063
0030	0316	31241	2490	14587	0139	00018	3063
0050	0115	31809	2550	14509	0195	00041	2492
0075	-0059 B	32231	2592	14439	0253	00077	2088
0100	-0059 I	3255 F	2618	14448	0302	00121	1840

C-REF-NO 005	YR 1963	DEPTH	196	WAVES 1 06X1	AIR T 12.	4 VIS
CONS. NO 085	MONTH 7	MXSAMPD	02	WAVES 2 00X0	WET 8 12.	1 STN
LAT 49-006N	DAY 02	NO. DPTH	10	WND-DIR 060	WW-CODE O	1
LON 67-112W	HR 10.9	W-COLOR		WND-SPD 02	CLD-TPE	4
MARSD SQ 151		W-TRNSP		BARO 1008.0	CLD-AMT	7 HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
109	0000	122 B	28646 29695	2166	14902 14838
109	0020	0478	30855	2444	14649
109 109	0030	0240 0120	31399 31797	2509 2549	14556 14511
109	0100	-0004 -0026	32114 32480	2580 2611	14463
109	0124	0052	32953	2645	14509
109	0149	0204 0280 B	33503 33778	2679 2695	14588 14629

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1220 B	28646	2166	14902	0000	00000	6160
0010	1001	29695	2284	14838	0056	00003	5028
0020	0478	30855	2444	14649	0099	00009	3500
0030	0240	31399	2509	14556	0131	00017	2885
0050	0120	31797	2549	14511	0185	00039	2504
0075	-0004	32114	2580	14463	0244	00076	2199
0100	-0026	32480	2611	14462	0296	00122	1909
0125	0058	32977	2647	14512	0340	00172	1570
0150	0184 H	3346 I	2678	14579	0376	00222	1283
0175	0284 B	33789	2696	14631	0406	00272	1119

C-REF-NO 005 CONS. NO 086				WAVES 1 04X0 WAVES 2 00X0		
LAT 49-050N	DAY 02	NO.DPTH	16	WND-DIR 040		
LON 67-143W MARSD SQ 151				WND-SPD 02 BARO 1007.0		HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
119	0000	106 B	27288		2088	14828
119	0010	0402 B	28775		2287	1.4588
119	0020	0298	29754		2373	14557
119	0030	0262	31032		2478	14561
119	0050	0010	31974		2568	14464
119	0074	-0074	32212		2591	14432
119	0099	-0077 B	32361		2603	14437
119	0124	-0034	32617		2622	14465
119	0149	0098	33150		2658	14536
119	0174	0225	33581		2684	14603
119	0199	0330 D	33962		2705	14658
119	0224	0394	34211		2719	14692
119	0248	0436 C	34373		2727	14716
119	0273	0464 C	34587		2741	14735
119	0298	0466	34610		2743	14740
119	0308	0465	34612		2743	14741

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1060	В	27288		2088	14828	0000	00000	6905
0010	0402	В	28775		2287	14588	0060	00003	4999
0020	0298		29754		2373	14557	0106	00009	4175
0030	0262		31032		2478	14561	0143	00019	3179
0050	0010		31974		2568	14464	0198	00040	2313
0075	-0075		32218		2592	14432	0253	00075	2092
0100	-0077	8	32368		2604	14437	0305	00121	1975
0125	-0030		32637		2624	14467	0352	00176	1786
0150	0103		33169		2659	14539	0393	00232	1451
0175	0230		33598		2685	14605	0426	00288	1217
0200	0333	D	33974		2706.	14659	0455	00342	1025
0225	0396		34218		2719	14693	0479	00395	0906
0250	0439	C	34393		2728	14718	0501	00448	0823
0300	0467		3462 C		2744	14741	0539	00555	0687

C-REF-NO 005	YR 1963	DEPTH	320	WAVES 1 49X0	AIR T	12.5	VIS
CONS. NO 087	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B	12.3	STN
LAT 49-085N	DAY 02	NO.DPTH	15	WND-DIR 990	WW-CODE	03	
LON 67-171W	HR 12.8	W-COLOR		WND-SPD 02	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 1007.0	CLD-AMT	7	HW

DBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
128	0000*	114 8	3 26741		2032	14850
128	0010	0350	29063		2314	14569
128	0020	0254 B	3 30025		2398	14542
128	0030	0198	30900		2472	14531
128	0040	0152	31572		2529	14521
128	0064	-0041	32224		2591	14446
128	0089	-0046	32329		2599	14449
128	0114	-0038	32468		2610	14459
128	0139	0037	32919		2643	14504
128	0163	0168 E	33397		2673	14573
128	0188	0288	33836		2699	14636
128	0213	0357 E	34056		2710	14673
128	0237	0400 E	34235		2720	14697
128	0287	0466	34615		2743	14738
128	0302	0465	34629		2744	14740

DEPTH	TEM	Р	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140	В	26741	2032	14850	0000	00000	7438
0010	0350		29063	2314	14569	0061	00002	4739
0020	0254	В	30025	2398	14542	0105	00009	3938
0030	0198		30900	2472	14531	0141	00018	3235
0050	0067	F	3196 I	2564	14490	0197	00040	2352
0075	-0056	D	3230 I	2598	14442	0252	00075	2032
0100	-0047		3237 D	2603	14451	0303	00120	1985
0125	-0013		3264 D	2623	14475	0350	00175	1788
0150	0094	В	3314 B	2658	14535	0391	00232	1468
0175	0230		3363 B	2687	14606	0425	00287	1197
0200	0326		3396 C	2705	14656	0453	00341	1031
0225	0380	В	34147	2715	14686	0478	00395	0943
0250	0424	В	3436 F	2727	14711	0500	00450	0832
0300	0465		34624	2744	14740	0538	00557	0684

C-REF-NO 005	YR 1963	DEPTH	314	WAVES 1 49X0	AIR T	12.5	VIS
CONS. NO 088	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B	12.3	STN
LAT 49-130N	DAY 02	NO.DPTH	15	WND-DIR 990	WW-CODE	03	
LON 67-194W	HR 13.9	W-COLOR		WND-SPD 02	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 1007.0	CLD-AMT	7	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
139 139 139 139 139 139 139 139 139	0000 0010 0020 0030 0050 0075 0100 0125 0150 0175	115 0497 0218 0118 -0022 -0066 -0037 0028 0157 0270	В	26599 28873 30477 31424 32062 32284 32444 32854 33356 33748	UXYGEN	2020 2286 2437 2519 2577 2597 2608 2638 2671 2694	14852 14629 14532 14502 14450 14437 14457 14497 14566 14625
139 139 139 139 139	0199 0224 0249 0299 0309	0348 0406 0440 0466 0466	В	34064 34259 34439 34616 34617		2712 2721 2732 2743 2743	14667 14698 14719 14740 14742

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1150 B	26599		2020	14852	0000	00000	7560
0010	0497	28873		2286	14629	0063	00003	5011
0020	0218	30477		2437	14532	0106	00009	3570
0030	0118	31424		2519	14502	0138	00017	2788
0050	-0022	32062		2577	14450	0189	00037	2232
0075	-0066	32284		2597	14437	0242	00071	2044
0100	-0037	32444		2608	14457	0292	00116	1932
0125	0028	32854		2638	14497	0337	00167	1648
0150	0157	33356		2671	14566	0375	00220	1345
0175	0270 C	33748		2694	14625	0406	00272	1137
0200	0351	34073		2712	14668	0433	00323	0968
0225	0408 B	34267		2722	14699	0456	00373	0881
0250	0441	34445		2732	14719	0477	00424	0786
0300	0467	34615		2743	14741	0515	00529	0692

C-REF-NO 005	YR 1963	DEPTH	276	WAVES 1 49X0	AIR T	12.3	VIS
CONS. NO 089	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B 1	11.9	STN
LAT 49-172N	DAY 02	NO.DPTH	14	WND-DIR 990	WW-CODE	03	
LON 67-230W	HR 14.9	W-COLOR		WND-SPD 02	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 1007.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT :	SOUND
149	0000	104 B	29376	2253	14847
149	0010	0676	30246	2374	14720
149	0020	0393. D	30997	2464	14615
149	0030	0253	31360	2505	14561
149	0050	0036 C	31864	2558	14474
149	0075	-0054	32255	2594	14442
149	0100	-0029	32575	2619	14462
149	0125	0058	33013	2650	14512
149	0150	0195	33497	2679	14585
149	0175	0330 C	33969	2706	14654
149	0200	0364	34116	2714	14674
149	0225	0426 C	34368	2728	14708
149	0250	0453	34521	2737	14725
149	0270	0460	34589	2742	14733

DEPTH	TEMP	S A L OXYGE	EN SGMT	SOUND	DELTA-D	POT . EN	SVA
0000	1040 B	29376	2253	14847	0000	00000	5323
0010	0676	30246	2374	14720	0048	00002	4173
0020	0393 D	30997	2464	14615	0085	80000	3312
0030	0253	31360	2505	14561	0117	00016	2924
0050	0036 C	31864	2558	14474	0170	00037	2409
0075	-0054	32255	2594	14442	0227	00073	2071
0100	-0029	32575	2619	14462	0276	00116	1835
0125	0058	33013	2650	14512	0318	00165	1543
0150	0195	33497	2679	14584	0354	00214	1266
0175	0330 C	33969	2706	14654	0383	00262	1024
0200	0364	34116	2714	14674	0407	00310	0948
0225	0426 C	34368	2728	14708	0430	00358	0825
0250	0453	34521	2737	14725	0450	00407	0742

C-REF-NO 005	YR 1963	DEPTH	1.74	WAVES 1 49X0	AIR T	12.6	VIS
CUNS. NO 090	MONTH 7	MXSAMPD	01	WAVES 2 00X0	WET B	12.3	STN
LAT 49-180N	DAY 02	NO. DPTH	9	WND-DIR 990	WW-CODE	01	
LON 67-244W	HR 15.6	W-COLOR		WND-SPD	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1007.0	CLD-AMT	8	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
156 156	0000	108 0896	B €	29310 29895		2241	14861 14801
156 156	0015	0565	D	30526 31072		2409	14680 14598
156 156	0030	0286		31303 31843		249 7 2553	14575
156	0075	-0085	8	32244		2594	14428
156 156	0100 0125	-0034 0065	8	32559 32968		261 7 2646	14460

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1080 B	29310		2241	14861	0000	00000	5435
0010	0896 E	29895		2316	14801	0051	00002	4724
0020	0351	31072		2474	14598	0091	80000	3219
0030	0286	31303		2497	14575	0122	00016	2992
0050	0103	31843		2553	14504	0177	00038	2460
0075	-0085 B	32244		2594	14428	0234	00074	2068
0100	-0034	32559		2617	14460	0283	00118	1845
0125	0065 B	32968		2646	14515	0326	00167	1581

C-REF-NO 005	YR 1963	DEPTH	137	WAVES 1 49X0	AIR T	13.1	VIS
CONS. NO 091	MONTH 7	MXSAMPD	01	WAVES 2 00X0	WET B	13.0	STN
LAT 49-180N	DAY 02	NO.DPTH	9	WMD-DIR 990	WW-CODE	01	
LON 67-230W	HR 16.5	W-COLOR		WND-SPD	CLD-TPE	3	
MARSD SQ 151		W-TRNSP		BARO 1006.0	CLD-AMT	3	HW

GMT	DEPTH	TEMP)	SAL	OXYGEN	SGMT	SOUND
165	0000	114 E	3	29469		2243	14884
165	0010	0643 E	3	30418		2391	14709
165	0015	0498 E	3	30721		2431	14655
165	0020	0415		30955		2458	14624
165	0030	0308		31245		2491	14584
165	0050	0126		31761		2545	14514
165	0075	-0067 E	3	32166		2587	14435
165	0100	-0018 8	3	32586		2619	14468
165	0125	0066 B	3	33026		2650	14516

TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1140 B	29469		2243.	14884	0000	00000	5416
0643 B	30418		2391	14709	0047	00002	4005
0415	30955		2458	14624	0084	80000	3364
0308	31245		2491	14584	0117	00016	3053
0126	31761		2545	14513	0173	00038	2535
-C067 B	32166		2587	14435	0232	00075	2134
-0018 B	32586		2619	14468	0281	00120	1831
0066 B	33026		2650	14516	0324	00168	1537
	1140 B 0643 B 0415 0308 0126 -C067 B -0018 B	1140 B 29469 0643 B 30418 0415 30955 0308 31245 0126 31761 -C067 B 32166 -0018 B 32586	1140 B 29469 0643 B 30418 0415 30955 0308 31245 0126 31761 -C067 B 32166 -0018 B 32586	1140 B 29469 2243. 0643 B 30418 2391 0415 30955 2458 0308 31245 2491 0126 31761 2545 -C067 B 32166 2587 -0018 B 32586 2619	1140 B 29469 2243, 14884 0643 B 30418 2391 14709 0415 30955 2458 14624 0308 31245 2491 14584 0126 31761 2545 14513 -C067 B 32166 2587 14435 -0018 B 32586 2619 14468	1140 B 29469 2243 14884 0000 0643 B 30418 2391 14709 0047 0415 30955 2458 14624 0084 0308 31245 2491 14584 0117 0126 31761 2545 14513 0173 -C067 B 32166 2587 14435 0232 -0018 B 32586 2619 14468 0281	1140 B 29469 2243, 14884 0000 00000 0643 B 30418 2391 14709 0047 00002 0415 30955 2458 14624 0084 00008 0308 31245 2491 14584 0117 00016 0126 31761 2545 14513 0173 00038 -C067 B 32166 2587 14435 0232 00075 -0018 B 32586 2619 14468 0281 00120

C-REF-NO 005	YR 1963	DEPTH	128	WAVES 1	06X1	AIR T	12.4	VIS
CONS. NO 092				WAVES 2				
LAT 49-184N			9	WND-DIR	060	WW-CODE	03	
LON 67-242W				WND-SPD	02	CLD-TPE	3	
MARSD SQ 151		W-TRNSP		BARO		C LD-AMT	6	HW

UESERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
198	0000	122	В	29497		2231	14913
198	0010	0884	С	29931 30431		2320	14797 14698
198	0020	0464		30842		2445 2507	14643 14563
198	0030	0256		31399 31826		2551	14508
198	0075	-0039 -0032		32190 32565		2588 2618	14448
198	0125	0082	В	33080		2654	14524

DEPTH	TEMP	S A L OXYG	EN SGMT.	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	29497	2231.	14913	0000	00000	5531
0010	0884	29931	2320	14797	0051	00002	4680
0020	0464	30842	2445	14643	0092	00008	3496
0030	0256	31399	2507	14563	0124	00016	2897
0050	0112	31826	2551	14508	0178	00038	2478
0075	-0039	32190	2588	14448	0236	00075	2126
0100	-0032	32565	2618	14461	0286	00119	1841
0125	0082 B	33080	2654	14524	0329	00167	1506

C-REF-NO 005	YR 1963	DEPTH	229	WAVES 1 06X	AIR T	13.0	VIS
CONS. NO 093	MONTH 7	MXSAMPD	02	WAVES 2 OOX	NET B	12.9	STN
LAT 49-174N	DAY 02	NO. DPTH	14	WND-DIR C6	WW-CODE	03	
LON 67-241W	HR 20.4	W-COLOR		WND-SPD 0	2 CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
204	0000	111 B	3 29264 29300		2233	14871
204	0015	0667 0496	30075 30688		2361	14715
204	0029	0304	31223		2490	14581
204	0048	0136 -0064	31741 32225		2543 2592	14517 14436
204	0095	-0054 B	32500 32865		2614	14449
204	0142	0181 E	33427		2675	14576
204	0165	0311 8	33904		2102	14643
204	0213	0385 B 0428 C			2719 2729	14687

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1110 B	. 29264		2233	14871	0000	00000	5518
0010	1051	29300		2245	14852	0055	00003	5398
0020	0496	30688		2429	14654	0100	00009	3643
0030	C291 B	3126 B		2494	14576	0134	00018	3027
0050	0114 B	31790		2548	14509	0189	00040	2506
0075	-0072 B	3228 C		2596	14434	0247	00076	2049
0100	-0044 B	32568		2619	14455	0296	00119	1834
0125	0064 C	3302 C		2650	14515	0338	00168	1539
0150	0231 D	3361 C		2686	14602	0373	00216	1206
0175	0330 G	3401 C		2709	14654	0400	00262	0997
0200	0369 H	3412 G		2714	14676	0425	00309	0949
0225	0430 C	3441 B		2730	14710	0447	00357	0801

C-REF-NO 005	YR 1963 MONTH 7	DEPTH MXSAMPC	294	WAVES 1 02X0 WAVES 2 00X0	AIR T WET B	12.5	VIS STN
LAT 49-171N LON 67-224W	DAY 02	NO.DPTH	14	WND-DIR 020 WND-SPD 05	WW-CODE	02	
MARSD SQ 151				BARO 1001.0	CLD-AMT	6	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
212	0000	106 В	28751		2201	14846
212	0009	1004	29362		2258	14835
212	0018	0484	30313		2401	14644
212	0027	0181	30795		2465	14521
212	0044	0104	31657		2538	14501
212	0065	-0059	32155		2586	14437
212	0086	-0062	32376		2604	14442
212	0108	-0006 B	32769		2633	14477
212	0129	0100 C	33155		2659	14534
212	0151	0186 C	33402		2673	14579
212	0172	0292	33860		2701	14635
212	0194	0366 C	34115		2714	14674
212	0215	0403 B	34256		2721	14695
212	0250	0457	34567		2740	14728

DEPTH	TEM	P	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1060	B	28751	2201	14846	0000	00000	5819
0010	0952	F	2947 E	2274	14817	0055	00003	5121
0020	0399		3044 D	2419	14610	0099	00009	3738
0030	0146	H	3096 C	2480	14508	0134	00018	3154
0050	0053	D	3185 D	2556	14482	0190	00040	2431
0075	-0074	В	322 7 F	2596	14433	0247	00076	2054
0100	-0033		3262 B	2622	14461	0295	00119	1802
0125	0079	C	3309 B	2654	14523	0337	00166	1499
0150	0182	C	33390	2672	14577	0372	00216	1337
0175	0304		33905	2703	14642	0402	00266	1049
0200	0378	8	3416 B	2716	14681	0427	00314	0931
0225	0428	C	3437 F	2728	14709	0450	00362	0823
0250	0457		34567	2740	14728	0469	00409	0712

C-REF-NO 005 CONS. NO 095			WAVES 1 WAVES 2				
LAT 49-130N	DAY 02	NO.DPTH	WND-DIR				
LON 67-191W	HR 22.3	W-COLOR	WND-SPD	10	CLD-TPE	Х	
MARSD SQ 151		W-TRNSP	BARO		CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
223	0000	123 B	27078		2043	14886
223	0009	0711	28510		2233	14712
223	0018	0219	30305		2423	14530
223	0027	0241	31279		2499	14554
223	0045	0026	31876		2560	14469
223	0068	-0076	32214		2591	14430
223	0091	-0060 B	32374		2604	14444
223	0113	-0026	32546		2616	14465
223	0136	0080 D	33075		2653	14525
223	0159	0188	33476		2678	14583
223	0180	0283	33821		2698	14632
223	0203	0370	34107		2713	14677
223	0224	0424 B	34335		2725	14707
223	0273	0464	34616		2743	14735
223	0283	0465	34619		2743	14737

DEPTH	TEMP	S A L GXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1230 B	27078	2043	14886	0000	00000	7338
0010	0643 D	2872 G	2258	14687	0063	00003	5278
0020	0205 I	3058 D	2445	14528	0107	00009	3486
0030	0213 E	3145 I	2515	14545	0139	00017	2826
0050	-C009	3198 C	2570	14455	0191	00038	2302
0075	-0078 B	3227 B	2596	14431	0245	00072	2050
0100	-0051 B	3242 D	2607	14450	0296	00117	1942
0125	0025 C	3281 G	2635	14494	0341	00169	1681
0150	0146 B	3333 В	2669	14560	0379	00223	1358
0175	0261	33743	2694	14621	0411	00275	1133
0200	0360	34073	2711	14672	0437	00326	0976
0225	0426 B	34345	2726	14708	0460	00375	0842
0250	0456 B	3453 B	2738	14727	0480	00424	0736

C-REF-NO 005 CONS. NO 096				WAVES 1 WAVES 2				
LAT 49-082N	DAY 02	NO.DPTH	15	WND-DIR	010	WW-CODE	92	
LON 67-182W MARSD SQ 151				WND-SPD BARO		-		

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
234	0000	122 В	27056	2043	14882
234	0010	1021 I	27308	2096	14815
234	0019	0302	29758	2373	14559
234	0028	0232	30353	2426	14538
234	0046	0018 C	31957	2567	14467
234	0068	-0050	32128	2583	14441
234	0091	-0084 C	32226	2592	14430
234	0113	-0079	32369	2604	14438
234	0136	-0006 D	32742	2631	14481
234	0158	011C B	33187	2661	14544
234	0179	0243	33680	2690	14613
234	0203	0355 8	34049	2710	14670
234	0226	0395 B	34224	2720	14693
234	0271	0466	34616	2743	14736
234	0290	0467	34630	2744	14739

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	27056	2043	14882	0000	00000	7337
0010	1021 I	27308	2096	14815	0071	00003	6832
0020	0279 F	2987 I	2384	14551	0126	00011	4076
0030	0207 B	3055 I	2443	14530	0164	00021	3507
0050	-0004 C	3206 I	2576	14459	0222	00043	2238
0075	-0064	3216 B	2586	14436	0277	00078	2140
0100	-0088 B	3227 B	2596	14431	0329	00125	2047
0125	-0048 3	3254 B	2617	14457	0378	00182	1850
0150	0064 в	33016	2650	14519	0421	00241	1544
0175	0218	3359 B	2685	14600	0456	00299	1214
0200	(1344 B	34014	2708	14664	0484	00352	1006
0225	0394 B	34218	2719	14692	0508	00405	0904
0250	0439 B	3446 H	2734	14719	0529	00456	0773

C-REF-NO 005	YR 1963	DEPTH	313	WAVES 1 01X2	AIR T	12.6	VIS
CONS. NO 097	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B	12.3	STN
LAT 49-040N	DAY 03	NO.DPTH	14	WND-DIR 010	WW-CODE	91	
LON 67-161W	HR 00.3	W-COLOR		WND-SPD 10	CLD-TPE	5	
MARSD SQ 151	•	W-TRNSP		BARO 1000.0	CLD-AMT	8	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
003	0000	124	В	26885		2026	14887
003	0009	1174		26915		2040	14866
003	0017	0309		29525		2354	14559
003	0024	0262		29962		2392	14545
003	0039	0200	3	31483		2518	14541
003	0058	-0026	В	32099		2580	14450
003	0076	-0038	B	32270		2594	14450
003	0095	-0048	В	32326		2599	14449
003	0113	-0049	D	32513		2614	14454
003	0132	8000	I	32769		2633	14487
003	0149	0092		33147		2658	14534
003	0170	0228		33582		2684	14603
003	0190	0286	D	33801		2696	14635
003	0230	0413		34289		2723	14702

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
	40.00	0.4005	2024	1 / 0 0 7	0000	00000	7498
0000	1240 B	26885	2026	14887	0000	00000	
0010	1063 I	2724 I	2083	14830	0072	00004	6950
0020	0248 I	2981 I	2381	14536	0128	00011	4099
0030	0240 C	3058 I	2443	14545	0166	00021	3509
0050	C066 H	3196 I	2564	14489	0225	00044	2353
0075	-0040 B	32267	2594	14449	0281	00079	2067
0100	-0051 B	32369	2603	14449	0332	00125	1983
0125	-0019 G	3266 B	2625	14472	0379	00179	1773
0150	0099	33170	2660	14537	0419	00235	1447
0175	C246 B	3365 B	2687	14613	0453	00290	1195
0200	0341 F	3399 I	2706	14663	0481	00344	1024
0225	0405 В	3425 C	2721	14697	0505	00396	0892

CUNS. NO 098 LAT 49-004N	MONTH 7 DAY 03	MXSAMPD NO.DPTH	02 10	WAVES 1 02X2 WAVES 2 00X0 WND-DIR 020	WET B 1	01	VIS STN
LGN 67-113W	HR 01.3	W-COLOR		WND-SPD 10			
MARSD SQ 151		W-TRNSP		BARO 1000.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
013 013 013 013 013 013 013 013	0000 0010 0019 0029 0047 0071 0094 0117 0140	115 B 1068 0285 0315 0125 -0008 -0072 -0004 B 0113 C	27546 27641 29854 30816 31749 32163 32396 32712 33180		2093 2114 2382 2456 2544 2584 2606 2629 2660	14864 14837 14553 14581 14512 14462 14439 14479
C13	0169	0273	33782		2696.	14626

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1150 в	27546	2093	14864	0000	00000	6857
0010	1068	27641	2114	14837	0068	00003	6657
0020	0269 H	2999 F	2394	14548	0121	00011.	3973
0030	0308 В	3089 B	2463	14579	0158	00020	3323
0050	0103	3183 E	2552	14504	0216	00043	2468
0075	-0026	3221 B	2589	14454	0274	00079	2119
0100	-0063 B	32467	2611	14445	0324	00124	1904
0125	0033 B	3287 B	2639	14499	0369	00176	1642
0150	0158 C	3336 E	2671	14566	0407	00228	1346

C-REF-NO 005	YR 1963	DEPTH	113	WAVES 1 02X2	AIR T	12.0	VIS
CONS. NO 099	MONTH 7	MXSAMPC		WAVES 2 00X0			
LAT 48-590N	DAY 03	NO.DPTH	9	WND-DIR 020	WW-CODE	02	
LON 67-104W	HR 02.2	W-COLUR		WND-SPD 10	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1001.0	CLD-AMT	9	HW

GMT	DEPTH	TEM	Р	SAL	DXYGEN	SGMT	SOUND
022 022 022 022 022 022 022	0000 0010 0015 0020 0030 0050	-0048	B B C B	28267 28708 29560 29972 30203 31585 32144		2133 2147 2278 2323 2401 2528 2585	14904 14947 14826 14801 14604 14536
022	0099	-0037 -0028	B	32476 32600		2611 2621	14457

DEPTH	T E M	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1010	-	00013		6103	1/00/	0000	20000	//75
0000	1240	В	28267		2133.	14904	0000	00000	6475
0010	1343	В	28708		2147	14947	0064	00003	6336
0020	0889		29972		2323	14801	0119	00011	4658
0030	0389		30203		2401	14604	0162	00022	3909
0050	0182	8	31585		2528	14536	0229	00048	2704
0075	-0050		32160		2586	14443	0290	00086	2145
0100	-0055	F	3251 D		2614	14449	0340	00131	1877

C-REF-NO 005 CONS. NO 100 LAT 48-582N LGN 67-096W	MONTH 7 DAY 03	MXSAMPD NO.DPTH	01	WAVES 1 03X2 WAVES 2 00X0 WND-DIR 030 WND-SPD 05	WET B WW-CODE	12.1	STN
MARSD SQ 151				BARO 1000.0			

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
027 027 027 027 027	0000 0010 0015 0020 0030	129 B 1207 1126 D 1071 0641	28687 29417 29621 29752 30346	2156 2227 2258 2277 2386	14927 14909 14884 14866 14711
027	0050	0205	31526 322 7 4	2521 2595	14546

DEPTH	TEMP	SALO	XYGEN SC	MT SOUN	DELTA-D	POT.EN	SVA
0000 0010 0020 0030 0050	1290 B 1207 1071 0641 0205	28687 29417 29752 30346 31526 3230 B	22 22 23 25	156 1492 227 1490 277 1486 386 1471 521 1454	09 0059 66 0113 11 0159 66 0227	00000 00003 00011 00022 00049 00087	6253 5570 5097 4058 2764 2042

C-REF-NO 005	YR 1963	DEPTH	53	WAVES 1 03X2	AIR T	12.5	VIS
CONS. NO 101	MONTH 7	MXSAMPC	00	WAVES 2 00X0	WET B	12.0	STN
LAT 48-575N	DAY 03	NO.DPTH	6	WND-DIR 360	WW-CODE	47	
LON 67-094W	HR 03.2	W-COLOR		WND-SPD 04	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1000.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
032	0000-	124 B	28724	2168	14910
032	0010	1182 B	29632	2249	14903
032	0015	1135 D	29697	2262	14888
032	0020	0690	29485	2312	14718
032	0030	0285	29604	2362	14551
032	0045	0227	30416	2431	14539

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1240 B	28724		2168	14910	0000	00000	6137
0010	1182 В	29632		2249	14903	0058	00003	5368
0020	0690	29485		2312	14718	0108	00010	4761
0030	0285	29604		2362	14551	0154	00022	4279

C-REF-NO 005 CONS. NO 102 LAT 48-574N LON 67-090W	MONTH 7 DAY 03 HR 05.4	MXSAMPC NO.DPTH W-COLOR	00	WAVES 1 04X2 WAVES 2 00X0 WND-DIR 040 WND-SPD 03 BAR0 999.0	WET B WW-CODE CLD-TPE	12.0 41 X	STN
MARSD SQ 151		W-TRNSP		BARU 599.0	CLUTAMI	7	2.144

GMT	DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND
054 054 054	0000 0010 0015 0020	118 B 1162 1115 0428	28683 29012 29650 29056		2176 2204 2262 2307 2354	14889 14888 14880 14604 14556
054	0030	0298 0286 C	29514 29613		2363	14553

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	28683		2176	14889	0000	00000	6064
0010	1162	29012		2204	14888	0059	00003	5792
0020	0428	29056		2307	14604	0113	00011	4810
0030	0298	29514		2354	14556	0159	00023	4357

C-REF-NO 005 CONS. NO 103		WAVES 1 04X2 WAVES 2 00X0		
LAT 48-585N		WND-DIR 040		
LON 67-103W		WND-SPD 03		
MARSD SQ 151	W-TRNSP	BARO 999.0	CLD-AMT	9 HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
059	0000	137 8	28692	2141	14954
059	0010	1119	29018	2212	14873
059	0015	1124	29675	2262	14883
059	0020	8080	29823	2323	14768
059	0030	0412	30397	2414	14617
059	0050	0220	31477	2516	14551
059	0075	-0022 B	32183	2587	14456

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1370 в	28692		2141	14954	0000	00000	6396
0010	1119	29018		2212	14873	0061	00003	5717
0020	0808	29823		2323	14768	0113	00011	4657
0030	0412	30397		2414	14617	0155	00021	3783
0050	0220	31477		2516	14551	0221	00047	2812
0075	-0022 в	32183		2587	14456	0284	00086,	2138

C-REF-NO 005 CONS. NO 104			WAVES 1 04X2 WAVES 2 00X0		VIS STN
LAT 48-592N	DAY 03	NO. DPTH	 WND-DIR 040	WW-CODE	
LON 67-110W MARSD SQ 151			WND-SPD 02 BARO 999.0		

GMT	DEPTH	TEM	Р	S A L	OXYGEN	SGMT	SOUND
064	0000	112	В	27558		2099	14853
064	0010	0600		28999		2285	14673
064	0015	0474		29330		2324	14626
064	0020	0332		29565		2355	14570
064	0030	0398		30991		2463	14619
064	0050	0160	В	31651		2534	14527
064	0075	-0057	В	32236		2592	14441
064	0100	-0038	В	32524		2615	14457
064	0125	0000	C	32751		2631	14482

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	2 75 58		2099,	14853	0000	00000	6 7 99
0010	0332	29565		2355	14570	0106	00010	4344
0030	0398 0160 B	30991		2534	14527	0205	00043	2640
0075 0100	-0057 B -0038 B	32236 32524		2592 2615	14440	0264	00080	2084
0125	0000 C	32751		2631	14482	0359	00176	1713

C-REF-NO 005	YR 1963	DEPTH	186	WAVES 1 04X1	AIR T		VIS
CONS. NO 105	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B		STN
LAT 49-003N	DAY 03	NO. DPTH	11	WND-DIR 040	WW-CODE	41	
LON 67-123W	HR 07.1	W-COLOR		WND-SPD 03	CLD-TPE	Х	
MARSD SQ 151		W-TRNSP		BARO 999.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND
071	0000	112 8	27636		2105	14854
071	0010	0332	29372		2340	14565
071	0020	0286	29869		2383	14554
071	0030		31917			
071	0050		30819			
071	0075		32090			
071	0100	-0048	32348		2601	14450
071	0125	-0022	32720		2630	14472
071	0150	0098 H	33339		2673	14539
071	0175	0264 I	33872		2704	14624
071	0180	0277	33899		2705	14631

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1120 B	27636		2105	14854	0000	00000	6741
0010	0332	29372		2340	14565	0056	00002	4491
0020	0286	29869		2383	14554	0099	00009	4079
0030		31917						
0050		30819						
0075		32090						
0100	-0048	32348		2601	14450	0316	00135	2001
0125	-0022	32720		2630	14472	0363	00188	1726
0150	C098 H	33339		2673	14539	0402	00242	1319
0175	0264 I	33872		2704	14624	0431	00291	1039

C-REF-NO 005 CONS. NO 106 LAT 49-046N LON 67-144W	MONTH 7 DAY 03	MXSAMPC NO.DPTH	03	WAVES 1 04X1 WAVES 2 00X0 WND-DIR 040 WND-SPD 02	WET B WW-CODE	VIS
MARSD SQ 151				BARO 999.0		HW

		mer con t. d.			OVVCEN	CCMT	SOUND
GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	ZOOND
082	0000	089	B	27985		2168	14773
082	0010	0392	C	29285		2328	14590
0.82	0020	0302		29723		2370	14559
0.82	0030	0295		30813		2458	14572
0.82	0050	0004		32038		2574	14462
0.82	0075	-0038	B	32274		2595	14450
~ ~		-0040	r	32380		2603	14455
082	0100	0 0 . 4	£,				
082	0125	-0002	B	32765		2633	14482
082	0150	0114	8	33202		2661	14544
082	0175	0208	В	33532		2681	14595
082	0200	0313		33920		2703	14650
0.82	0225	0392	C	34203		2718	14691
082	0250	0432	Č	34378		2728	14715
0 0 111			G				14741
082	0300	0467		34626		2744	
082	0310	0467		34630		2744	14743

DEPTH	TEMF	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0890 B	В	27985		2168	14773	0000	00000	6138
0010	0392 (С	29285		2328	14590	0054	00002	4605
0020	0302		29723		2370	14559	0098	00009	4202
0030	0295		30813		2458	14572	0136	00019	3370
0050	0004		32038		2574	14462	0193	00041	2261
0075	-0038	8	32274		2595	14450	0247	00075	2062
0100	-0040 (С	32380		2603	14455	0298	00121	1979
0125	-0002 E	В	32765		2633	14482	0344	00174	1701
0150	0114	8	33202		2661	14544	0384	00229	1433
0175	0208	В	33532		2681	14595	0418	00285	1250
0200	0313		33920		2703	14650	0447	00340	1047
0225	0392 (C	34203		2718	14691	0471	00394	0913
0250	0432 (С	34378		2728	14715	0493	00447	0826
0300	0467		34626		2744	14741	0531	00554	0685

C-REF-NO 005	YR 1963	DEPTH	326	WAVES 1 05X1	AIR T		VIS
CONS. NO 107	MONTH 7	MXSAMPD	03	WAVES 2 00X0	WET B		STN
LAT 49-085N	DAY 03	NO.DPTH	14	WND-DIR 050	WW-CODE	60	
LON 67-156W	HR 09.2	W-COLOR		WND-SPD 03	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 999.0	CLD-AMT	9	HW

092 0000 106 B 27522 2106 14831 092 0010 0853 29208 2269 14776 092 0020 0272 30836 2461 14561 092 0030 0163 31551 2526 14524 092 0050 -0054 32124 2583 14436 092 0075 -0086 32239 2594 14427 092 0100 -0077 B 32345 2602 14437
092 0020 0272 30836 2461 14561 092 0030 0163 31551 2526 14524 092 0050 -0054 32124 2583 14436 092 0075 -0086 32239 2594 14427
092 0030 0163 31551 2526 14524 092 0050 -0054 32124 2583 14436 092 0075 -0086 32239 2594 14427
092 0050 -0054 32124 2583 14436 092 0075 -0086 32239 2594 14427
092 0075 -0086 32239 2594 14427
092 0100 -0077 B 32345 2602 14437
092 0125 -0057 B 32505 2614 14453
092 0149 0064 C 33026 2650 14519
092 0174 0230 33625 2687 14606
092 0199 0326 33976 2707 14656
092 0224 0389 C 34193 2718 14690
092 0249 0426 C 34352 2727 14712
092 0299 0466 34631 2744 14740

DEPTH	TEMI	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1060	В	27522		2106	14831	0000	00000	6731
0010	0853		29208		2269	14776	0060	00003	5176
0020	0272		30836		2461	14561	0102	00009	3335
0030	0163		31551		2526	14524	0133	00016	2718
0050	-0054		32124		2583	14436	0182	00036	2173
0075	-0086		32239		2594	14427	0235	00070	2072
0100	-0077 1	В	32345		2602	14437	0287	00116	1992
0125	-0057	В	32505		2614	14452	0335	00172	1876
0150	0071	С	33052		2652	14523	0378	00232	1520
0175	0235		33643		2688	14608	0412	00288	1187
0200	0329		33987		2707	14658	0440	00341	1012
0225	0391 (C.	34200		2718	14691	0464	00394	0914
0250	0431 (-	3437 C		2727	14714	0486	00447	0831
0300	0466		34635		2745	14741	0524	00554	0677
0 2 0 0	0100		4 4 20 20						

C-REF-NO 005 CONS. NO 108				WAVES 1 WAVES 2			VIS
LAT 49-130N	DAY 03	NO.DPTH	15	WND-DIR	040	WW-CODE	
LON 67-201W MARSD SQ 151						CLD-TPE CLD-AMT	

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
103	0000	092	В	27954		2161	14784
103	0010	0592	F	29189		2300	14672
103	0019	0271		30673		2448	14558
103	0029	0222		31065		2483	14543
103	0049	0068		31860		2556	14488
103	0073	-0076	8	32238		2593	14431
103	0097	-0051	В	32510		2614	14451
103	0121	0029	В	32898		2642	14497
103	0146	0139	C	33315		2669	14557
103	0170			33693			
103	0192	0327		33970		2706	14655
103	0217	0395	В	34209		2718	14692
103	0241	0442	C	34441		2732	14718
103	0292	0465		34618		2743	14739
103	0302	0465		34517		2735	14739

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0920 B	27954	2161	14784	0000	00000	6203
0010	0592 F	29189	2300	14672	0056	00002	4870
0020	0259 C	3074 G	2455	14554	0097	80000	3397
0030	C215	3111 B	2487	14541	0130	00017	3087
0050	0060	3188 B	2559	14485	0185	00039	2406
0075	-0078 B	32260	2595	14431	0241	00074	2058
0100	-0043 B	32555	2618	14455	0290	00118	1844
0125	0046 B	32965	2646	14506	0333	00167	1573
0150	0157 C	33382	2673	14566	0370	00218	1326
0175	0263 B	33762	2695	14622	0401	00269	1121
0200	0351	34051	2710	14668	0427	00320	0985
0225	0413 B	34291	2723	14701	0450	00371	0868
0300	0466	3453 B	2737	14739	0512	00534	0753

C-REF-NO 005	YR 1963	DEPTH	285	WAVES 1 04X1	AIR T		VIS
CONS. NO 109	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B		STN
LAT 49-165N	DAY 03	NO. DPTH	13	WND-DIR 040	WW-CODE	02	
LON 67-231W	HR 11.8	W-COLOR		WND-SPD 03	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 999.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
118	0000	116 B	29421		2236	14891
118	0010 0020	1164 0882	29437 29995		2237	14894
118	0030 0049	0550 0126	30605 31768		2417 2546	14677 14513
118 118	00 7 4 0099	-0064 -0056 C	32178 32466		2588 2611	14436
118	0123 0148	0046 0202 C	32982 33514		2648 2680	14506 14588
118	0173 0197	0288 C 0340	33825 34036		2698 2710	14633
118 118	0222 0247	0397 F 0434	34228 34409		2720 2730	14693 14716

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
		0.0.4.0.3	0001	1 (001	0000		5105
0000	1160 B	29421	2236	14891	0000	00000	5485
0010	1164	29437	2237	14894	0055	00003	5481
0020	0882	29995	2326	14799	0106	00010	4631
0030	0550	30605	2417	14677	0148	00021	3762
0050	0112	3180 C	2549	14508	0211	00045	2499
0075	-0067	32188	2589	14435	0269	00082	2117
0100	-0053 C	32485	2612	14450	0319	00127	1894
0125	0059	33029	2651	14513	0363	00176	1531
0150	0211 C	33545	2682	14592	0397	00225	1242
0175	0293 C	33845	2699	14636	0427	00273	1084
0200	0347	34060	2711	14666	0453	00323	0974
0225	0399 C	34253	2722	14695	0476	00374	0882

C-REF-NO 005 CONS. NO 110				WAVES 1 04X1 WAVES 2 00X0			
LAT 49-173N	DAY 03	NO.DPTH	13	WND-DIR 040	WW-CODE	02	
LON 67-233W MARSD SQ 151				WND-SPD · 04 BARO 999.0			HW

GMT	DEPTH	TEMP	0	SAL	DXYGEN	SGMT	SOUND
GMI	DEFILI	4 to 11 to		0 71 6	W/11 W L 11	• • • • • • • • • • • • • • • • • • • •	
127	0000	118 E	3	29279		2222	14896
127	0010	1057		29605		2268	14858
127	0015	1014 €	В	29762		2287	14845
127	0020	0951		29882		2306	14824
127	0029	0202		31595		2527	14542
127	0049	0149		31726		2541	14523
127	0073	-0052		32150		2585	14441
127	0098	-0059 f	В	32433		2608	14446
127	0122	0062 f	В	33035		2651	14514
130	0143	0184 (D	33449		2676	14578
130	0166	0298 [D	33872		2701	14637
130	0190	0337 8	В	34006		2708	14660
130	0228	0398		34274		2723	14695

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	29279	2222	14896	0000	00000	5623
0010	1057	29605	2268	14858	0054	00003	5182
0020	0951	29882	2306	14824	0104	00010	4815
0030	0174 I	3166 I	2534	14530	0142	00019	2643
0050	0140	31742	2543	14520	0194	00041	2558
0075	-0059	3217 B	2587	14439	0253	00078	2135
0100	-0052 B	3248 B	2612	14450	0304	00123	1899
0125	0079 B	33098	2655	14523	0347	00171	1490
0150	C224 C	3360 C	2685	14598	0381	00219	1214
0175	0317 C	3394 E	2705	14648	0409	00266	1035
0200	0374 F	3416 I	2717	14679	0434	00313	0926
0225	0398	3427 B	2723	14695	0456	00363	0869

C-REF-NO 005	YR 1963	DEPTH	132	WAVES 1 04X1	AIR T		VIS
CONS. NO 111	MONTH 7	MXSAMPC	Cl	WAVES 2 00X0	WET B		STN
LAT 49-184N	DAY 03	NO.DPTH	9	WND-DIR 040	WW-CODE	50	
LON 67-240W	HR 13.6	W-COLOR		WND-SPD 02	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 999.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
136 136	0000	121 B	29369 29434		2223	14908 14896
136	0015	1163 D	29449		2238	14895
136	0020	1045	29651		2274	14855
136	0030	0182	31609		2530	14533
136	0050	0100	31866		2555	14503
136	0075	-0021	32137		2583	14456
136	0100	-0034	32482		2611	14459
136	0125	0108 3	33188		2661	14537

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1210 B	29369		2223.	14908	0000	00000	5608
0010	1170	29434		2235	14896	0056	00003	5494
0020	1045	29651		2274	14855	0109	00011	5130
0030	0182	31609		2530	14533	0148	00020	2686
0050	0100	31866		2555	14503	0200	00041	2440
0075	-0021	32137		2583	14456	0258	00078	2174
0100	-0034	32482		2611	14459	0309	00124	1904
0125	0108 B	33188		2661	14537	0351	00171	1439

C-REF-NO 005 CONS. NO 112			WAVES 1 04X1 WAVES 2 04X1			VIS STN
LAT 49-181N		9	WND-DIR 040	WW-CODE	40	
ION 67-236W			WND-SPD 03	CLD-TPE	X	
MARSD SQ 151			BARO 998.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
163 163 163 163 163 163	0000 0010 0015 0020 0030 0050 0075	120 B 1179 1006 C 0366 0208 0106 0040 -0002 B	29247 29359 29650 31208 31592 31861 32056 32681		2216 2228 2280 2483 2526 2554 2574 2626	14903 14898 14840 14606 14544 14506 14483
163	0125	0074	33054		2652	14520

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	29247		2216	14903	0000	00000	5681
0010	1179	29359		2228	14898	0056	00003	5564
0020	0366	31208		2483	14606	0100	00009	3129
0030	0208	31592		2526	14544	0129	00016	2716
0050	0106	31861		2554	14506	0181	00037	2448
0075	0040	32056		2574	14483	0241	00075	2263
0100	-0002 B	32681		2626	14476	0291	00120	1766
0125	0074	33054		2652	14520	0333	00167	1521

C-REF-NO 005	YR 1963	DEPTH	252	WAVES 1 04X1	AIR T		VIS
CONS. NO 113	MONTH 7	MXSAMPD	02	WAVES 2 04X1	WET B		STN
LAT 49-172N	DAY 03	NO.DPTH	14	WND-DIR 040	WW-CODE	60	
LON 67-244W	HR 17.0	W-COLOR		WND-SPD 05	CLD-TPE	5	
MARSD SQ 151		W-TRNSP		BARO 998.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
170	0000	124 B	29235		2207	14916
170	0010	1179	29319		2225	14898
170	0014	0933	29933		2313	14817
170	0019	0826	30156		2346	14779
170	0029	0394	31109		2473	14618
170	0048	0124	31805		2549	14513
170	0071	001C C	32116		2580	14469
170	0095	-0049	32521		2615	14452
170	0119	0040 D	32935		2644	14502
170	0143	0182 B	33443		2676	14577
170	0165	0252	33713		2692	14615
170	0190	0344 C	34030		2709	14663
170	0214	0392	34229		2720	14690
170	0230	0427	34396		2730	14710

DEPTH	T	E	М	Р	S	A	Ł	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000		1 7 /		n	20	0 7	_		2207	14014	0000	00000	5740
0000		124	+ U	В	29	23	2		2207	14916	0000	00000	5760
0010		117	79		29	31	9		2225	14898	0057	00003	5594
0020	(078	35	D	30	25	E		2359	14765	0107	00010	4311
0030	(036	59	С	31	17	C		2480	14609	0144	00019	3162
0050	(010	8 (В	31	84	C		2553	14507	0201	00042	2463
0075	(000	7	C	32	18	0		2586	14463	0259	00079	2147
0100	- (003	39	В	32	60	3		2621	14458	0309	00123	1809
0125	(007	76	D	33	07	C		2653	14521	0350	00170	1511
0150	(020	7	В	33	54	В		2682	14590	0385	00219	1243
0175	(029	91	В	33	85	В		2700	14635	0414	00268	1081
0200	(036	56	В	34	12	В		2714	14675	0440	00317	0951
0225	()41	9		34	35	В		2727	14705	0462	00365	0829

C-REF-NO 005	YR 1963	DEPTH MXSAMPC	287	WAVES 1 04X1 WAVES 2 04X1	AIR T WET B	12.6	VIS STN
LAT 49-168N			14	WND-DIR 040	WW-CODE	02	
LON 67-240W MARSD SQ 151				WND-SPD 06 BARO 998.0			HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
178	0000	122 8	29381	2222	14911
178	0010	1161	29417	2236	14893
178	0019	0924	29843	2308	14813
178	0029	0412	30978	2460	14624
178	0048	0180 B	31626	2531	14535
178	0072	-0002	32114	2580	14464
178	0096	-0050 8	32511	2614	14451
178	0120	0036 B	32919	2643	14500
178	0144	0128	33275	2666	14551
178	0167	0249 8	33686	2690	14614
178	0190	0350	34068	2712	14666
178	0214	0406 C	34273	2722	14697
178	0238	0448 C	34466	2733	14721
178	0274	0457	34571	2741	14732
178 178 178 178 178 178 178 178	0048 0072 0096 0120 0144 0167 0190 0214 0238	-0002 -0050 8 0036 B 0128 0249 B 0350 0406 C 0448 C	32114 32511 32919 33275 33686 34068 34273 34466	2580 2614 2643 2666 2690 2712 2722 2733	14464 14451 14500 14551 14614 14666 14697 14721

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	29381		2222	14911	0000	00000	5617
0010	1161	29417		2236	14893	0056	00003	5491
0020	0873 D	2995 F		2324	14795	0107	00010	4649
0030	0387 D	3104 E		2468	14615	0146	00020	3275
0050	0160 B	3168 B		2536	14528	0206	00044	2621
0075	-0015	32166		2585	14459	0266	00082	2154
0100	-0041 B	32580		2619	14457	0316	00126	1826
0125	0053 B	32992		2648	14510	0358	00175	1556
0150	0159	33380		2673	14567	0395	00225	1328
0175	0288 B	3383 B		2699	14634	0425	00276	1090
0200	0377 B	3417 C		2717	14681	0451	00324	0924
0225	0428 8	34368		2728	14709	0473	00372	0827
0250	0455 B	3450 D		2736	14726	0493	00421	0756

C-REF-NO 005	YR 1963	DEPTH	316	WAVES 1 04X1	AIR T 1	1.8	VIS
CONS. NO 115	MONTH 7	MXSAMPO	0.3	WAVES 2 04X1	WET B		STN
LAT 49-125N	DAY 03	NO.DPTH	15	WND-DIR 040	WW-CODE	02	
LON 67-198W	HR 18.8	W-COLOR		WND-SPD 05	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 997.0	CLD-AMT	8	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
188	0000	100	B	28269		2173	14818
188	0010	0978		28970		2231	14820
188	0020	0314		30403		2424	14573
188	0030	0242		31050		2481	14552
188	0049	0030		31851		2558	14471
188	0074	-0025	B	32214		2589	14455
188	0099	-0013	8	32603		2620	14470
188	0123	0067		33041		2651	14517
188	0148	0182	E	33439		2676	14578
188	0173	0293	C	33828		2698	14636
188	0197	0361		34096		2713	14672
188	0222	0406	C	34255		2721	14698
188	0247	0442	C	34441		2732	14719
188	0296	0466		34613		2743	14740
188	0306	0466		34614		2743	14741

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000 B	28269	2173	14818	0000	00000	6085
0010	0978	28970	2231	14820	0058	00003	5532
0020	0314	30403	2424	14573	0105	00009	3695
0030	0242	31050	2481	14552	0139	00018	3151
0050	0025	3187 B	2560	14469	0195	00040	2397
0075	-0026 B	32229	2591	14455	0251	00076	2102
0100	-0011 B	32621	2622	14471	0301	00120	1808
0125	0076	33074	2654	14521	0342	00167	1506
0150	0192 E	33472	2678	14583	0377	00216	1282
0175	0300 C	33854	2699	14639	0407	00266	1083
0200	0367	34118	2714	14676	0433	00315	0950
0225	0411 C	34278	2722	14700	0456	00365	0876
0250	0445 C	34459	2733	14721	0477	00416	0779
0300	0467	34614	2743	14741	0514	00520	0693

C-REF-NO 005 CONS. NO 116 LAT 49-081N LUN 67-164W	MONTH 7 DAY 03	MXSAMPC NO.DPTH	03 15	WAVES 1 29X1 WAVES 2 00X0 WND-DIR 290 WND-SPD 02	WET B WW-CODE		VIS
MARSD SQ 151				BARO 997.0	CLD-AMT	8	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
197	0000	116	В	27082		2055	14862
197	0010	0632		30258		2380	14703
197	0019	0250		30642		2448	14548
197	0027	0183		31381		2511	14530
191	0021						
197	0044	0024		31956		2566	14469
197	0067	-0072	В	32166		2587	14431
197	0086	-0078		32290		2597	14433
197	0107	-0072		32433		2609	14442
197	0127	0002	C	32766		2633	14484
197	0150	0800	C	33071		2653	14527
197	0169	0203		33544		2683	14592
197	0192	0317	8	33919		2703	14650
197	0212	0356	C	34074		2712	14672
197	0256	0447		34469		2734	14723
197	0265	0466		34626		274.4	14735

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	27082	2055	14862	0000	00000	7218
0010	0632	30258	2380	14703	0057	00002	4112
0020	0235 C	3073 D	2456	14543	0094	80000	3387
0030	0153 B	3155 H	2526	14519	0125	00015	2716
0050	-0012	3205 F	2575	14454	0175	00035	2249
0075	-0079 B	32221	2592	14430	0230	00070	2088
0100	-0079	3237 C	2604	14436	0281	00116	1970
0125	-0007 C	3273 B	2630	14479	0327	00169	17.26
0150	0080 C	33071	2653	14527	0368	00226	1511
0175	0238	33662	2689	14610	0402	00282	1175
0200	0336 B	3399 B	2707	14661	0430	00335	1016
0225	0382 C	3416 F	2715	14687	0454	00389	0940
0250	0434	3440 D	2729	14716	0476	00442	0816

C-REF-NO 005	YR 1963	DEPTH	311	WAVES 1 25X1	AIR T		VIS
CONS. NO 117	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B		STN
LAT 49-042N	DAY 03	NO.DPTH	15	WND-DIR 250	WW-CODE	40	
LON 67-134W	HR 20.6	W-COLOR		WND-SPD 02	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 997.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
206	0000	106 B	27555		2109	14831
206	0010	0537 B	29566		2336	14655
206	0020	0327	30359		2419	14578
206	0030	0243	31177		2491	14554
206	0049	0011	31979		2569	14464
206	0074	-0081 B	32224		2592	14429
206	0098	-0075 B	32354		2602	14438
206	0123	-0032	32617		2622	14465
206	0148	0088 E	33119		2656	14531
206	0172	0218	33572		2684	14599
206	0197	0294	33852		2700	14640
206	0222	0370	34132		2715	14681
206	0246	0423 B	34384		2729	14710
206	0295	0467	34626		2744	14740
206	0305	0467	34624		2744	14742

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1060 в	27555	2109	14831	0000	00000	6707
0010	0537 B	29566	2336	14655	0056	00002	4529
0020	0327	30359	2419	14578	0098	00008	3739
0030	0243	31177	2491	14554	0132	00017	3056
0050	0004	3200 B	2571	14461	0186	00038	2291
0075	-C082 B	32229	2593	14429	0241	00073	2081
0100	-0074 B	32368	2604	14439	0292	00119	1976
0125	-0024	32653	2625	14470	0339	00173	1776
0150	0100 E	33161	2659	14537	0380	00230	1455
0175	0229	33611	2686	14605	0413	00285	1207
0200	0304	33886	2702	14645	0442	00340	1064
0225	0378	34166	2717	14685	0467	00395	0926
0250	0430 В	34418	2731	14714	0489	00447	0793
0300	0468	34626	2744	14741	0526	00552	0686

C-REF-NO 005 CONS. NO 118 LAT 49-003N LON 67-112W	MONTH 7 DAY 03	MXSAMPC NO.DPTH	C2 10		00X0 250			VIS STN
MARSD SQ 151				BARO		CLD-AMT	8	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
217 217 217 217 217 217 217 217 217	0000 0010 0020 0030 0050 0075 0100 0125 0149	0773 0330 0270 0069 -0076 -0058 0028	8 B	27280 28088 29622 30572 31835 32265 32487 32876 33359		2071 2192 2360 2440 2554 2595 2613 2640 2671	14864 14731 14570 14558 14489 14432 14448 14497 14568
217	0169	0278		33802		2697	14628

DEPTH	TEMP	S A L OXY	GEN SGMT	SOUND	DELTA-D	POT.EN	SVA
C000	1160 В	27280	2071	14864	0000	00000	7071
0010	0773	28088	2192	14731	0065	00003	5908
0020	0330	29622	2360	14570	0116	00010.	4300
0030	0270	30572	2440	14558	0156	00020	3534
0050	C069	31835	2554	14489	0216	00044	2447
0075	-C076	32265	2595	14432	0272	00079	2055
0100	-0058 B	32487	2613	14448	0322	00124	1891
0125	0028	32876	2640	14497	0366	00174	1631
0150	0161 C	3337 B	2672	14568	0404	00227	1335

C-REF-NO 005	YR 1963	DEPTH	124	WAVES 1	21X1	AIR T		VIS
CONS. NO 119	MONTH 7	MXSAMPE	C 1	WAVES 2	00X0	WET B		STN
LAT 48-592N	DAY 03	NO.DPTH	9	WNU-DIR	210	WW-CODE	01	
LON 67-102W	HR 22.4	W-COLOR		WND-SPD	0.2	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO		CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
224	0000	112 В	27198		2071	14849
224	0010	0764	28078		2192	14727
224	0015	0424 E	29486		2341	14607
224	0020	0272	29899		2387	14548
224	0030	0296	30280		2415	14565
224	0050	0200	31570		2525	14544
224	0075	-0042	32163		2586	14446
224	0100	-0051	32436		2608	14450
224	0115	0002 B	32774		2633	14482

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
CCOO	1120 B	27198		2071	14849	0000	00000	7067
0010	0764	28078		2192	14727	0065	00003	5904
0020	0272	29899		2387	14548	0115	00010	4046
0030	0296	30280		2415	14565	0154	00020	3775
0050	0200	31570		2525	14544	0220	00046	2727
0075	-0042	32163		2586	14446	0281	00084	2146
0100	-0051	32436		2608	14450	0332	00130	1932

C-REF-NO 005 CONS. NO 120 LAT 48-581N	MONTH 7 DAY 03	MXSAMPC NO.DPTH	C1 7	WAVES 1 25X1 WAVES 2 00X0 WND-DIR 250	WET B WW-CODE		VIS
LON 67-094W	HR 23.4	W-COLOR		WND-SPD 02	CED-1PE	- (
MARSD SQ 151		W-TRNSP		BARO 998.0	C LD-AMT	8	HW

GMT	DEPTH	TEMP	S A L OXYGE	N SGMT	SOUND
234	0000	113 8	26928	2048	14849
234	0010	1031 I	29267	2246	14844
234	0015	0727	29414	2302	14731
234	0020	0742	30043	2349	14745
234	0030	0590	30388	2395	14691
234	0050	0246 C	31400	2508	14562
234	0065	0107 B	31844	2553	14509

DEPTH	TEMP	SALO	XYGEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1130 B	26928	2048	14849	0000	00000	7283
0010	1031 I	29267	2246	14844	0064	00003	5392
0020	0742	30043	2349	14745	0113	00010	4407
0030	0590	30388	2395	14691	0155	00021	3969
0050	0246 C	31400	2508	14562	0224	00048	2889

CONS. NO 121 M		WAVES 1 25X1 WAVES 2 00X0		VIS
LAT 48-572N D	 	WND-DIR 250		211/4
LON 67-092W H MARSD SQ 151	 	WND-SPD 02 BARO 998.0	 _	4.14.1

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
237	0000	115 в	27383		2080	14862
237	0010	0678 B	29026		2278	14705
237	0015	0400 C	29226		2323	14594
237	0020	0342	29378		2340	14571
237	0030	0302	29553		2357	14558
237	0035	0212 B	30827		2465	14537

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1150 B	27383		2080	14862	0000	00000	6978
0010	C678 B	29026		2278	14705	.0060	00003	5090
0020	0342	29378		2340	14571	0109	00010	4494
0030	0302	29553		2357	14558	0153	00021	4330

C-REF-NO 005	YR 1963	DEPTH	324	WAVES 1 23X1	AIR T	14.0	VIS
CONS. NO 122	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B	13.2	STN
LAT 49-114N	DAY 04	NO. DPTH		WND-DIR 230			
LON 67-072W	HR 23.9	W-COLOR		WND-SPD 06	CLD-TPE	3	
MARSD SQ 151		W-TRNSP		BARO 992.0	CLD-AMT	1	HW

GMT.	DEPTH	TEM	Ρ	S A L	DXYGEN	SGMT	SOUND
239	0000	116	b	29636		2253	14893
239	0010	1130		29631		2258	14884
239	0020	0448		30524		2421	14632
239	0030	0161		31452		2518	14522
239	0050	-0029		32060		2577	14447
239	0075	-0044	C	32380		2603	14449
239	0100	-0036	C	32539		2616	14459
239	0124	0014	C	32846		2638	14490
239	0149	0144	C	33318		2669	14559
239	0174	0272	В	33755		2694	14626
239	0199	0342		34012		2708	14663
239	0223	0396	C	34217		2719	14693
239	0248	0433	В	34372		2727	14715
239	0298	0467		34624		2744	14741

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	29636	2253	14893	0000	00000	5326
0010	1130	29631	2258	14884	0053	00003	5281
0020	0448	30524	2421	14632	0098	00009	3720
0030	0161	31452	2518	14522	0131	00017	2792
0050	-0029	32060	2577	14447	0182	00038	2231
0075	-0044 C	32380	2603	14449	0235	00071	1979
0100	-0036 C	32539	2616	14459	0283	00114	1859
0125	0018 C	32864	2640	14492	0327	00165	1636
0150	0150 C	33338	2670	14562	0365	00217	1354
0175	0275 B	33767	2695	14627	0396	00269	1127
0200	0345	34021	2709	14665	0423	00320	1000
0225	0400 C	34231	2720	14695	0447	00373	0900
0250	0437 B	3439 B	2729	14717	0468	00425	0819
0300	0467	34631	2744	14741	0506	00531	0681

C-REF-NO 005	YR 1963	DEPTH	316	WAVES 1 25X1	AIR T 12	2.0 VIS
CONS. NO 123	MONTH 7	MXSAMPC	0.3	WAVES 2 COXO	WET B 11	L.9 STN
LAT 49-144N	DAY 05	NO.DPTH	14	WND-DIR 250	WW-CODE	02
LON 66-582W	HR 01.8	W-COLOR		WND-SPD · 07	CLD-TPE	3
MARSD SQ 151		W-TRNSP		BARO 992.0	CLD-AMT	1 HW

GMT	DEPTH	TEMP	S A L OXYGE	N SGMT	SOUND
018	0000	105 B	30104	2308	14860
018	0010	1056	30151	2311	14864
018	0020	0332	31333	2496	14593
018	0030	0090	31850	2554	14495
018	0050	-0117	32175	2589	14407
018	0074	-0047 B	32347	2601	14447
018	0099	-0020 C	32540	2615	14466
018	0124	0004	32759	2632	14484
018	0149	0106 C	33167	2659	14540
018	0173	0228 B	33598	2685	14604
018	0197	0330	33970	2706	14657
018	0222	0385 C	34163	2716	14687
018	0247	0430	34366	2727	14713
018	0297	0468	34620	2743	14741

DEPTH	TEMP	S A L OXYG	EN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1050 B	30104	2308	14860	0000	00000	4799
0010	1056	30151	2311	14864	0048	00002	4775
0020	0332	31333	2496	14593	0087	80000	3006
0030	0090	31850	2554	14495	0115	00015	2448
0050	-0117	32175	2589	14407	0160	00033	2114
0075	-0045 B	32354	2601	14448	0212	00066	1998
0100	-0020 C	32547	2616	14466	0261	00110	1860
0125	0007	32773	2633	14486	0306	00161	1699
0150	0111 C	33185	2660	14543	0345	00217	1444
0175	0238 B	33634	2687	14609	0378	00272	1197
0200	0338	3400 B	2707	14662	0406	00325	1012
0225	0391 C	34188	2717	14691	0431	00378	0923
0250	0432 B	3437 C	2727	14715	0453	00432	0832
0300	0469	34633	2744	14742	0491	00539	0681

C-REF-NO 005	YR 1963	DEPTH	322	WAVES 1 22X1	AIR T 1	2.0 VIS
			03	WAVES 2 00X0	WET B 1	1.9 STN
LAT 49-086N	DAY 05	NO.DPTH	14	WND-DIR 220	WW-CODE	02
LON 67-150W	HR 04.1	W-COLOR		WND-SPD 05	CLD-TPE	Х
MARSD SQ 151		W-TRNSP		BARD 992.0	CLD-AMT	9 HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
041	0000	116	В	29516		2243	14892
041	0010	1142		29507		2246	14887
041	0019	0487		30208		2392	14644
041	0029	0277	8	31077		2480	14568
041	0048	0003		31942		2566	14460
041	0072	-0077		32230		2593	14431
041	0096	-0044	C	32494		2613	14454
041	0120	0014	8	32825		2637	14489
041	0144	0138	D	33300		2668	14556
041	0167	0246	C	33675		2690	14612
041	0190	0324		33958		2705	14653
041	0215	0363	8	34085		2712	14676
041	0238	0412		34297		2724	14703
041	0285	0466		34618		2743	14738

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	29516	2243	14892	0000	00000	5414
0010	1142 0453 D	295C 7 3030 B	2246	14887	0054 0101	00003	5393 3894
0030	0258 B	3114 8	2487	14560	0136	00018	3093
0050 0075	-0011 B	3198 D 32262	2570 2595	14454	0190 024 5	00040	2296 2058
0100	-0037 C	32542	2616	14458	0294	00118	1857
0125	0038 B 0168 C	3292 B 33406	2643	14502	0338	00168	1601
0175	0277 B	33788	2696	14628	0405	00219	1114
0200	0342 B 0384	3401 D	2708	14663	0432	00321	1004
0250	0422 C	3417 B 3435 G	2717 2727	14688 14710	0456 0478	00374 00428	092 7 083 7

C-REF-NO 005 CONS. NO 125 LAT 49-074N	MONTH 7	MXSAMPD	03	WAVES 1 22X1 WAVES 2 00X0 WND-DIR 220	WET B 12	2.5 S	
LON 67-265W MARSD SQ 151				WND-SPD 05 BARU 992.0	CLD-TPE	Х	W

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
058	0000	114	В	26110		1984	14842
058	0010	0638		28066		2207	14677
058	0019	0314	В	29512		2353	14561
058	0029	0264		29977		2394	14547
058	0048	0176	В	31605		2530	14533
058	0072	-0049		32074		2579	14441
058	0096	-0073	В	32348		2602	14438
058	0120	-0016		32633		2623	14472
058	0143	0042	В	32952		2646	14507
058	0167	0162	C	33376		2672	14571
058	0190	0290		33821		2698	14637
058	0214	0350	D	34042		2710	14670
058	0237	0381	В	34175		2717	14688
058	0286	0462		34594		2742	14736

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140 B	26110	1984	14842	0000	00000	7907
0010	0638	28066	2207	14677	0068	00003	5765
0020	0302 C	2958 G	2359	14557	0119	00010	4310
0030	0260	3006 F	2401	14547	0160	00021	3912
0050	0156 C	3168 G	2537	14526	0226	00046	2614
0075	-0060	3211 B	2583	14438	0286	00084	2177
0100	-0066 B	32393	2605	14442	0338	00130	1959
0125	-0006	32697	2627	14479	0385	00184	1751
0150	CO73 B	33069	2653	14524	0426	00242	1509
0175	0210 C	3354 C	2682	14596	0461	00299	1244
0200	0321 B	3393 B	2704	14654	0490	00354	1045
0225	0366 C	3411 B	2713	14679	0515	00409	0958
0250	0411 D	3431 F	2725	14705	0538	00465	0855

C-REF-NO 005	YR 1963	DEPTH	294	WAVES 1 30X1	AIR T 1	3.0	VIS
CONS. NO 126	MONTH 7	MXSAMPD	€3	WAVES 2 00X0	WET 8 1	2.2	STN
LAT 49-035N	DAY 05	NO. DPTH	13	WND-DIR 300	WW-CODE	02	
LON 67-352W	HR 07.2	W-COLOR		WND-SPD 05	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 993.0	CLD-AMT	9	HW

GMT	DEPTH	TEM	P	S A L	OXYGEN	SGMT	SOUND
072	0000	114	В	26960		2049	14853
072	0010	1131		26960		2051	14851
072	0020	0390		28617		2275	14582
072	0030	0283		29516		2355	14549
072	0050	0198		31455		2516	14541
072	0075	-0025	В	32194		2588	14455
072	0100	-0057		32424		2607	14447
072	0125	-0014	C	32683		2627	14475
072	0150	0061	8	33034		2651	14518
072	0175	0212		33575		2684	14597
072	0200	0326	C	34421		2742	14662
072	0240	0431	В	344Cl		2730	14713
072	0284	0459		34590		2742	14734

DEPTH	TEMP	SALC	IXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140 B	26960		2049	17053	0000	00000	7075
					14853	0000	00000	7275
0010	1131	26960		2051	14851	0073	00004	7262
0020	0390	28617		2275	14582	0135	00013	5109
0030	0283	29516		2355	14549	0182	00025	4345
0050	0198	31455		2516	14541	0254	00052	2813
0075	-0025 B	32194		2588	14455	0316	00091	2129
0100	-0057	32424		2607	14447	0368	00137	1939
0125	-0014 C	32683		2627	14475	0414	00190	1758
0150	0061 B	33034		2651	14518	0455	00248	1528
0175	0212	33575		2684	14597	0490	00305	1220
0200	0326 C	34421		2742	14662	0514	00350	0683
0225	0402 8	3450 I		2741	14699	0532	00389	0703
0250	0449 B	3474 I		2755	14727	0548	00428	0571

C-REF-NO 005	YR 1963	DEPTH	293	WAVES 1 26X1	AIR T 12.8	VIS
CONS. NO 127	MONTH 7	MXSAMPD	03	WAVES 2 00X0	WET B 12.0	STN
LAT 49-003N	DAY 05	NO.DPTH	14	WND-DIR 260	WW-CODE 60	
LÓN 67-450W	HR 08.7	W-COLOR		WND-SPD 02	CLD-TPE 5	
MARSD SQ 151		W-TRNSP		BARO 993.0	CLD-AMT 8	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT S	DUND
C87	0000	113 B	27342	2081 1	4854
087	0010	0497	28643	2268 1	4626
087	0020	0272	29638	2366 1	4545
087	0030	0418	30524	2424 1	4621
087	0050	0136	31664	2537 1	4517
087	0075	-0038	32203	2589 1	4449
087	0100	-0065	32408	2606 1	4443
087	0125	-0012	32729	2630 1	4476
087	0150	0114 D	33205	2662 1	4544
087	0175	0253 B	33697	2691 1	4617
087	0199	0327	33981	2707 1	4657
087	0224	0380 C	34160	2716 1	4686
087	0249	0428 C	34370	2728 1	4713
087	0278	0459	34573	2740 1	4733

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1130	В	27342		2081	14854	0000	00000	6976
0010	0497		28643		2268	14626	0061	00003	5185
0020	0272		29638		2366	14544	0108	00010	4244
0030	0418		30524		2424	14621	0148	00020	3692
0050	0136		31664		2537	14517	0212	00045	2615
0075	-0038		32203		2589	14449	0271	00082	2117
0100	-0065		32408		2606	14443	0322	00127	1948
0125	-0012		32729		2630	14476	0368	00180	1724
0150	0114	D	33205		2662	14544	0408	00236	1430
0175	0253	В	33697		2691	14617	0441	00290	1161
0200	0329		33989		2707	14658	0468	00342	1011
0225	0382	С	34168		2717	14687	0493	00396	0929
0250	0427	В	3437 C		2728	14712	0515	00450	0830

C-REF-NO 005	YR 1963	DEPTH	256	WAVES 1 25X1	AIR T		VIS
CONS. NO 128	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B		STN
LAT 49-045N	DAY 05	NO.DPTH	13	WND-DIR 250	WW-CODE	60	
LON 67-474W	HR 09.9	W-COLOR		WND-SPD 05	CLD-TPE	5	
MARSD SQ 151		W-TRNSP		BARO 994.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
099	0000	114 B	27180		2066	14856 14736
099	0020	0424	30093		2389	14616
099	0030 0050	0256 0092	31361 31878		2504 2557	14562 14500
099	0074	-0006 -0032 B	32124		2581 2606	14462
099	0124	0010 8	32741		2630	14487
099	0148 0173	0067 C 0185 B	33038 33449		2651 2676	14521 14583
099	0198	0292 0341 B	33859 34021		2700 2709	14640
099	0247	0414 B	34312		2725	14706

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1140 B	27180	2066	14856	0000	00000	7112
0010	0775	28452	2220	14736	0064	00003	5638
0020	0424	30093	2389	14616	0112	00010	4023
0030	0256	31361	2504	14562	0147	00019	2926
0050	0092	31878	2557	14500	0201	00040	2427
0075	-0008	32135	2582	14462	0259	00077	2181
0100	-0031 B	32427	2607	14459	0311	00123	1947
0125	0012 B	32753	2631	14488	0357	00176	1717
0150	0076 C	33069	2653	14525	0398	00233	1510
0175	0195 B	33486	2679	14588	0433	00291	1274
0200	0297	3388 B	2701	14642	0462	00347	1067
0225	0362 D	3411 I	2714	14677	0488	00403	0952

C-REF-NO 005	YR 1963	DEPTH	134	WAVES 1	14X1	AIR T	14.5	VIS
CONS. NO 129	MONTH 7	MXSAMPD	01	WAVES 2	00X0	WET 8	14.0	STN
LAT 49-154N	DAY 05	NO.DPTH	8	WND-DIR	140	WW-CODE	60	
LON 67-569W	HR 16.7	W-COLOR		WND-SPD	04	CLD-TPE	7	
MARSO SQ 151		W-TRNSP		BARO		CLD-AMT	8	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
167	0000	122 B	26211	1978	14872
167	0010	0423 B	29409	2335	14605
167	0020	0252	30399	2428	14546
167	0030	0181	31258	2502	14528
167	0050	0042	31906	2562	14477
167	0075	-0031 B	32314	2598	14454
167	0100	-0036 B	32537	2616	14459
167	0125	0019	32848	2638	14492

DEPTH	TEMP	S A L OX	YGEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	26211	1978	14872	0000	00000	7963
0010	0423 B	29409	2335	14605	0063	00002	4538
0020	0252	30399	2428	14546	0104	80000	3652
0030	0181	31258	2502	14528	0137	00017	2952
0050	CO42	31906	2562	14477	0191	00038	2380
0075	-0031 B	32314	2598	14454	0246	00073	2035
0100	-0036 B	32537	2616	14459	0295	00117	1861
0125	0019	32848	2638	14492	0339	00167	1648

C-REF-NO 005	YR 1963	DEPTH	157	WAVES 1 24X1	AIR T	14.2	VIS
CONS. NO 130				WAVES 2 00X0			
LAT 49-136N	DAY 05	NO.DPTH	9	WND-DIR 240	WW-CODE	20	
LON 67-550W	HR 17.4	W-COLOR		WND-SPD · 02	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARD 998.0	CLD-AMT	8	HW

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
174 174 174 174 174 174	0000 0010 0020 0030 0049 0074 0098	130 0568 0356 0227 0030 -0075 -0054		24959 26840 29640 30431 31946 32296 32502 32898		1867 2276 2359 2432 2565 2598 2614 2642	14885 14658 14581 14537 14472 14433 14449
174 174	0142	0230	B	33611		2686	14600

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1300 B	24959	1867	14885	0000	00000	9028
0010	0568	28840	2276	14658	0071	00003	5107
0020	0356	29640	2359	14581	0118	00010	4307
0030	0227	30431	2432	14537	0158	00020.	3611
0050	0023	3198 D	2568	14470	0217	00043	2315
0075	-0076 B	32304	2598	14433	0272	00077	2025
0100	-0052	3252 B	2615	14451	0321	00121	1868
0125	0065 F	3302 I	2649	14515	0364	00170	1545

C-REF-NO 005	YR 1963	DEPTH	171	WAVES 1 23X1	AIR T	14.4	VIS
CONS. NO 131	MONTH 7	MXSAMPE	02	WAVES 2 00X0	WET 8	13.5	STN
LAT 49-112N	DAY 05	NO. DPTH	10	WND-DIR 240	WW-CODE	02	
LON 67-529W	HR 18.1	W-COLOR		WND-SPD · 02	CLD-TPE	7	
MARSO SQ 151		W-TRNSP		BARO 999.0	C LD-AMT	8	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
181	0000	120 в	26284	1987	14866
181	0010	0959	29338	2263	14818
181	0020	0552 8	30023	2371	14669
181	0030	0413	30945	2458	14625
181	0050	0130	31749	2544	14515
181	0075	-0022	32195	2588	14456
181	0100	-0053	32503	2614	14450
181	0125	0080	33088	2654	14523
181	0150	0204 9	33533	2682	14589
181	0170	0296 C	33865	2701	14637

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	26284		1987	14866	0000	00000	7876
0010	0959	29338		2263	14818	0066	00003	5230
0020	0552 8	30023		2371	14669	0113	00010	4201
0030	0413	30945		2458	14624	0151	00019	3370
0050	0130	31749		2544	14515	0211	00043	2547
0075	-0022	32195		2588	14456	0269	00080	2129
0100	-0053	32503		2614	14450	0320	00125	1880
0125	0080	33088		2654	14523	0362	00173	1498
0150	C204 D	33533		2682	14589	0397	00221	1245

C-REF-NO 005	YR 1963	DEPTH	201	WAVES 1 24X1	AIR T 1	5.0 VI	S
CONS. NO 132	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B 1	4.0 ST	N
LAT 49-077N	DAY 05	NO. DPTH	11	WND-DIR 240	WW-CODE	01	
LON 67-503W	HR 18.9	W-COLOR		WND-SPD 03	CLD-TPE	7	
MARSD SQ 151		W-TRNSP		BARO 999.0	CLD-AMT	4 HW	4

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SCUND
189 189 189 189 189 189 189	0000 0010 0020 0030 0050 0075 0100 0125 0150	130 8 0771 0 0458 0235 0060 -0031 8 -0056 0	26288 28350 30118 30802 31944 32216 32427 32756 33257		1969 2213 2388 2461 2564 2590 2608 2632 2665	14901 14733 14631 14546 14486 14452 14448 14482 14551
189	0175 0190	0253 C 0298	33684 33874		2690 2701	14617

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1300 B	26288		1969	14901	0000	00000	8044
0010	0771 D	28350		2213	14733	0069	00003	5709
0020	0458	30118		2388	14631	0118	00010	4036
0030	0235	30802		2461	14546	0155	00019	3334
0050	0060	31944		2564	14486	0212	00042	2360
0075	-0031 B	32216		2590	14452	0268	00077	2110
0100	-0056 C	32427		2608	14448	0319	00123	1937
0125	0000	32756		2632	14482	0365	00175	1709
0150	0128 D	33257		2665	14551	0404	00230	1400
0175	0253 C	33684		2690	14617	0437	00284	1171

C-REF-NO 005	YR 1963	DEPTH	293	WAVES 1 24X1	AIR T 1	4.0	VIS
CONS. NO 133	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B 1	3.6	STN
LAT 49-004N	DAY 05	NO.DPTH	14	WND-DIR 240	WW-CODE	01	
LON 67-444W	HR 20.3	W-COLOR		WND-SPD ' 05	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1000.0	CLD-AMT	7	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT SOUND
203	0000	127 B	27313	2054 14903
203	0010	0523 D	28399	2246 14634
203	0020	0340	29468	2347 14572
203	0030	0259	29894	2387 14544
203	0049	0140	31723	2541 14519
203	0074	-0068 B	32230	2592 14435
203	0099	-0038 B	32426	2607 14456
203	0123	0002	32795	2635 14483
203	0148	0114 E	33231	2664 14544
203	0173	0238 C	33625	2686 14609
203	0197	0323	33955	2705 14654
203	0222	0378 C	34640	2754 14691
203	0246	0421 8	34332	2726 14709
203	0271	0459	34578	2741 14732

DEPTH	TEMP	S A L DXYG	EN SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1270 B	27313	2054	14903	0000	00000	1233
0010	0523 D	28399	2246	14634	0063	00003	5394
0020	0340	29468	2347	14572	0113	00010	4424
0030	0259	29894	2387	14544	0155	00021	4041
0050	0130	3177 D	2545	14515	0221	00046	2533
0075	-0069 B	32239	2593	14435	0279	00083	2078
0100	-0037 B	32439	2608	14457	0330	00128	1039
0125	0009	32830	2637	14488	0375	00180	160.
0150	0124 E	33264	2666	14550	0413	00233	1392
0175	0246 C	3365 B	2687	14613	0446	00287	1195
0200	0331	34C6 H	2713	14659	0473	00339	0962
0225	0384 C	3461 I	2752	14694	0493	00381	0598
0250	0428 B	3460 I	2746	14716	0509	00420	0655
0230	0420 0	3400 1	2170	71170	000	00.20	(-, ,)

C-REF-NO 005	YR 1963	DEPTH	293	WAVES 1 24X1	AIR T 13	.9 VIS
CONS. NO 134	MONTH 7	MXSAMPC	03	WAVES 2 00X0	WET B 13	4 STN
LAT 48-571N	DAY 05	NO.DPTH	14	WND-DIR 240	WW-CODE	01
LON 67-414W	HR 21.2	W-COLOR		WND-SPU C2	CLD-TPE	3
MARSO SQ 151		W-TRNSP		BARO 1001.0	CLD-AMT	5 HW

GMT	DEPTH	TENI	P	SAL	OXYGEN	SGMT	SOUND
212	0000		В	27200		2050	14891
212	0010	1004 0559		27662 28652		2126	14814
212	0029 0048	0327 0241		29498 31406		2351 2509	14568 14559
212	0072 0096	-0064 E	_	32223 32483		2592 2612	14437
212 212	0120 0144	0070 0186 £	Ē	33044 33444		2651 2676	14517 14579
212	0168 0193	0288 (0351	- -	33798 34053		2696 2710	14632 14667
212	0215	0382 (0415 8	-	34165 34312		2716 2725	14685
212	0266	0462		34600		2742	14733

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1240 B	27200	2050	14891	0000	00000	7265
0010	1004	27662	2126	14814	0069	00003	6543
0020	0527	2874 B	2272	14641	0128	00012	5141
0030	0318 C	2961 D	2360	14566	0175	00024	4302
0050	0214 D	3152 E	2520	14549	0246	00051	2776
0075	-0074 C	3226 E	2595	14433	0307	00089	2058
0100	-0033 B	3257 D	2618	14461	0356	00133	1836
0125	0095 B	33136	2657	14531	0398	00180	1471
0150	0214 D	33540	2681	14593	0432	00228	1248
0175	0309 B	33882	2701	14644	0461	00276	1071
0200	0362	3409 B	2713	14673	0487	00326	0963
0225	0395 B	3422 B	2719	14693	0510	00377	0907
0250	0434 B	3442 C	2731	14716	0532	00429	0794

C-REF-NO 005	YR 1963	DEPTH	190	WAVES 1 24X1	AIR T 13	.7 VIS
CONS. NO 135			02	WAVES 2 00X0	WET B 13	.4 STN
LAT 48-533N			10	WND-DIR 240	WW-CODE	01
LON 67-392W	HR 22.0	W-COLOR		WND-SPD 02	CLD-TPE	3
MARSD SQ 151		W-TRNSP		BARO 1001.0	CLD-AMT	3 HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
220 220 220 220 220 220 220 220 220	0000 0010 0020 0030 0049 0074 0099 0123 0148	118 8 0830 0818 0663 0106 -0060 0044 8 0153 0254	26996 27447 28666 31703 32465 32954 33361 33688		2037 2099 2136 2251 2542 2611 2646 2672 2690	14866 14739 14742 14698 14504 14442 14501 14560 14613
220	0173	0327 D	33967		2706	14652

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1180 B	26886	2037	14866	0000	00000	7396
0010	0830	26996	2099	14739	0071	00003	6798
0020	0818	27447	2136	14742	0137	00014	6446
0030	0663	28666	2251	14698	0197	00028	5344
0050	0091 B	3177 G	2548	14498	0275	00058	2507
0075	-0059	32488	2613	14443	0331	00092	1891
0100	0049 B	32972	2647	14503	0374	00131	1569
0125	0162	33390	2673	14564	0411	00172	1322
0150	0258	3372 B	2692	14615	0442	00216	1147
0175	0332 0	33985	2707	14655	0469	00261	1014

C-REF-NO 005 CONS. NO 136				WAVES 1 49X1 WAVES 2 00X0			
LAT 48-513N	DAY 05	NO.DPTH	6	WND-DIR 990	WW-CODE	03	
LON 67-384W	HR 22.5	W-COLOR		WND-SPD .	CLD-TPE	3	
MARSO SO 151				BARO 1002.0	CLD-AMT	5	HW

GMT	DEPTH	TEMI	Р	SAL	OXYGEN	SGMT	SOUND
225	0000,	118	8	26660		2019	14863
225	0010	1030		27164		2083	14817
225	0020	0836		27340		2125	14747
225	0030	0850		27757		2156	14760
225	0050	0025	,	31749		2550	14467
225	0060	-0016	В	32046		2575	14454

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030 0050	1180 B 1030 0836 0850 0025	26660 27164 27340 27757 31749		2083 2125 2156,	14863 14817 14747 14760 14467	0000 0073 0140 0204 0292	00000 00004 00014 00030 00062	7564 6953 6549 6257 2492

C-REF-NO 005 CONS. NO 137				WAVES 1 24X1 WAVES 2 00X0		
LAT 48-504N	DAY 05	NO.DPTH	4	WND-DIR 240	WW-CODE	03
LON 67-371W	HR 22.9	W-COLOR		WND-SPD . 05	CLD-TPE	3
MARSD SQ 151		W-TRNSP		BARO 1002.0	CLD-AMT	5 HW

GMT	DEPTH	TEMP	S A L GXYGEN	SGMT	SCUND
229	0000	111 B	26932	2052	14842
229	0010	1052	27029	2069	14823
229	0020	0934	27318	2110	14785
229	0030	0906	27558	2132	14779

DEPTH	TEMP	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1110 В	26932		2052	14842	0000	00000	7248
0010	1052	27029		2069	14823	0072	00004	7087
0020	0934	27318		2110	14785	0141	00014	6699
0030	0906	27558		2132	14779	0207	00031	6482

C-REF-NO 005	YR 1963	DEPTH	185	WAVES 1 24X1	AIR T	13.0	VIS
				WAVES 2 00X0			
LAT 48-560N	DAY 05	NO.DPTH	10	WND-DIR 240	WW-CODE	02	
LON 67-295W	HR 23.9	W-COLOR		WND-SPD 04	CLD-TPE	3	
MARSD SQ 151		W-TRNSP		BARO 1003.0	CLD-AMT	6	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
239 239 239 239 239 239 239 239	0000 0010 0019 0029 0048 0071 0095 0119 0143	118 8 0922 0784 0406 0228 -0044 C -0018 8 0138 8 0247 C	27236 27509 28241 28887 31199 32104 32567 33310 33678		2064 2126 2203 2295 2494 2581 2617 2669 2690	14871 14781 14739 14594 14551 14444 14466 14552 14609
239	0166	0296 €	33862		2700	14636

DEPTH	TEMP	SAL UXY	GEN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	27236	2064	14871	0000	00000	7136
0010	0922	27509	2126	14781	0068	00003	6539
0020	0747 C	2830 C	2212	14725	0130	00013	5717
0030	0388 C	2901 H	2307	14588	0183	00026	4811
0050	0200 C	3133 G	2506	14540	0260	00056	2911
0075	-0055 C	3219 F	2588	14441	0324	00095	2121
0100	0011 C	3273 F	2629	14483	0372	00138	1738
0125	0170 B	3343 B	2676	14568	0410	00181	1299
0150	0266 B	3378 F	2697	14619	0441	00224	1106

C-REF-NO 005	YR 1963	DEPTH	183	WAVES 1 24X1	AIR T 1	3.0	VIS
CONS. NO 139	MONTH 7	MXSAMPD	02	WAVES 2 00X0	WET B 1	2.6	STN
LAT 48-582N	DAY 06	NO. DPTH	10	WND-DIR 240	WW-CODE	03	
LON 67-204W	HR 00.8	W-COLOR		WND-SPD 04	CLD-TPE	4	
MARSD SQ 151		W-TRNSP		BARO 1003.0	CLD-AMT	8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
008	0000	120 B	27182		2056	14877
800	0009	1095	27707		2115	14847
008	0019	0829 0708	28268 28670		2199	14756
C 0 8	0046	0708 0233 D	30880		2468	14715
008	0070	-0041 D	32082		2579	14445
008	0093	-0042 E	32352		2601	14452
800	0116	-0010	32721		2630	14476
008	0139	0221 C	33576		2684	14595
800	0162	0283 B	33811		2697	14629

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200	В	27182		2056	14877	0000	00000	7210
0010	1069	В	27766		2123	14839	0069	00003	6565
0020	0815	В	2830 C		2203	14751	0131	00013	5801
0030	0657	E	2890 I		2270	14698	0186	00027	5164
0050	0163	D	3118 H		2497	14522	0268	00058	2998
0075	-0054	Ē	3217 I		2587	14441	0332	00098	2134
0100	-0045	E	3243 E		2608	14453	0384	00143	1937
0125	0079	G	3306 I		2653	14522	0427	00193	1516
0150	0217	I	3360 I		2686	14595	0461	00241	1204

C-REF-NO 005	YR 1963	DEPTH	183	WAVES 1 28X1	AIR T	13.0	VIS
CONS. NO 140	MONTH 7	MXSAMPC	0.2	WAVES 2 00X0	WET B	12.2	STN
LAT 49-005N	DAY 06	NO.DPTH	10	WND-DIR 280	WW-CODE	01	
LON 67-112W	HR 02.2	W-COLOR		WND-SPD 02	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1005.0	CLD-AMT	9	HW

GMT	DEPTH	TEM)	SAL	OXYGEN	SGMT	SOUND
022 022 022 022 022 022 022 022	0000 0010 0019 0029 0048 0072 0096 0120	122 { 1166 0627 0396 0228 -0047 -0081 { 0012 0184	3	26459 27080 28090 29179 31543 32130 32418 32836		1997 2054 2210 2319 2521 2583 2608 2638 2676	14875 14865 14674 14594 14556 14443 14435 14488
022	0144	0184 (2	33440		2701	14643

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	26459	1997	14875	0000	00000	7779
0010	1166	27080	2054	14865	0075	00004	7230
0020	0593 B	28197	2222	14662	0139	00013	5618
0030	0383 B	2932 F	2332	14590	0191	00026	4572
0050	0202 B	3165 I	2531	14546	0263	00054	2669
0075	-0061 B	3217 C	2587	14438	0324	00091	2133
0100	-0073 B	32477	2612	14441	0374	00137	1893
0125	0046 B	3296 C	2646	14506	0418	00186	1576
0150	0198 F	3351 I	2680	14586	0454	00236	1259

C-REF-NO CO5	YR 1963	DEPTH	183	WAVES 1 01X1	AIR T	12.0	VIS
				WAVES 2 00X0	WET B	11.3	STN
LAT 49-004N	DAY 06	NO. DPTH	10	WNC-DIR 010	WW-CODE	02	
LON 67-111W	HR 12.5	W-COLOR		WND-SPD · 05	CLD-TPE	4	
MARSE SQ 151		W-TRNSP		BARO 1010.0	CLU-AMT	8	HW

GMT	DEPTH	TEMP	S'A L	OXYGEN	SGMT	SOUND
125	0000	125 B	25988 27000		1955	14880
125	0020	0590	28148		2219	14660
125 125	0030 0050	0373 0140	28775 31634		2289 2534	14578 14518
125	0075	-0064 -0040 C	31840		2561 2613	14432
125	0124	0030	32914		2643	14498
125 125	0149	0190 F 0316 C	33453 33915		2676 2703	14582

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250 B	25988	1955	14880	0000	00000	8179
0010	1122	27000	2055	14849	0077	00004	7218
0020	0590	28148	2219	14660	0142	00013	5652
0030	0373	28775	2289	14578	0195	00027	4976
0050	0140	31634	2534	14518	0271	00055	2640
0075	-0064	31840	2561	14432	0335	00095	2385
0100	-0040 C	32497	2613	14456	0388	00143	1890
0125	0036	32935	2645	14501	0432	00193	1590
0150	0175 G	3344 G	2677	14575	0469	00244	1292
0175	0322 C	33935	2704	14650	0498	00292	1043

C-REF-NO 005	YR 1963	DEPTH	183	WAVES 1 36X1	AIR T 12	2.0 VIS
CONS. NO 142	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B 1:	L.8 STN
LAT 49-025N	DAY 06	NO. DPTH	10	WND-DIR 360	WW-CODE	02
LON 67-011W	HR 13.6	W-COLOR		WND-SPD 05	CLD-TPE	7
MARSD SQ 151		W-TRNSP		BARO 1010.0	CLD-AMT	8 HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
136 136 136	0000 0010 0020 0030	122 B 1108 0580 0594	26417 27139 28555 30363		1994 2068 2252 2393	14875 14845 14661 14692
136 136 136 136	0050 0075 0100 0124 0149	0142 -0007 -0048 C 0074 0182 F	31632 32190 32521 33081 33427		2534 2587 2615 2654 2675	14519 14463 14453 14520 14578
136	0174	0287 B	33805		2697	14633

DEPTH	TEMP	S A L OXYG	EN SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	26417	1994	14875	0000	00000	7811
0010	1108	27139	2068	14845	0075	00004	7093
0020	0580	28555	2252	14661	0137	00013	5335
0030	0594	30363	2393	14692	0184	00024	3992
0050	0142	31632	2534	14519	0250	00050	2643
0075	-0007	32190	2587	14463	0311	00088	2139
0100	-0048 C	32521	2615	14453	0361	00133	1868
0125	0079	33097	2655	14523	0403	00181	1491
0150	0189 C	3349 I	2679	14582	0438	00229	1268
0175	0291 B	33816	2697	14635	0468	00279	1104

C-REF-NO 005 CONS. NO 143	 		WAVES 1 36X1 WAVES 2 00X0			
LAT 49-055N		10	WND-DIR 360	WW-CODE	02	
LON 66-514W MARSD SQ 151			WND-SPD C6			
TINITO OF TOT	M-IKM2h		BARO 1011.0	LLUMAMI	8	HW

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
146 146 146 146 146 146	0000 0010 0019 0029 0048 0072	124 B 1077 0476 0306 0180 -0076 -0040	25827 27208 29006 30088 31667 32228 32577	1945 2079 2298 2399 2534 2592 2619	14874 14835 14623 14567 14536 14431
146 146 146	0121 0145 0169	0036 0184 C 0260 C	32915 33451 33704	2643 2677 2691	14500 14578 14619

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1240	В	25827		1945	14874	0000	00000	8282
0010	1077		27208		2079	14835	0076	00004	6993
0020	0446	D	2914 D		2312	14613	0135	00012	4762
0030	0297	8	30191		2408	14565	0179	00023	3843
0050	0155	C	3175 F		2542	14526	0243	00048	2563
0075	-0081	C	3228 B		2596	14430	0301	00084	2045
0100	-0034		32614		2622	14461	0349	00127	1803
0125	0061	В	3301 D		2649	14514	0392	00175	1549
0150	0181	G	3344 I		2676	14577	0427	00226	1295

C-REF-NO 005	YR 1963	DEPTH	216	WAVES 1 04X1	AIR T 12.5	VIS
CONS. NO 144	MONTH 7	MXSAMPC	0.2	WAVES 2 00X0	WET B 12.4	STN
LAT 49-087N	DAY 06	NO.DPTH	11	WND-DIR 040	WW-CODE 78	
LON 66-44CW	HR 15.6	W-COLOR		WND-SPD · 03	CLD-TPE	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SCUND
156	0000	120 B	27004		2042	14875
156	0010	1176	29155		2213	14895
156	0019	0712	29776		2332	14730
156	0029	0314	30904		2463	14581
156	0049	0072	31982		2566	14492
156	0073	-0044	32324		2599	14447
156	0097	-0024 C	32600		2620	14465
156	0122	0038	32922		2643	14502
156	0146	0146 D	33310		2668	14560
156	0171	0252 C	33678		2689	14615
156	0195	0340	34010		2708	14662

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	27004	2042	14875	0000	00000	7342
0010	1176 0665	29155 2989 D	2213	14895	0065 0116	00003, 00010	5710 4430
0030	0292 C	3099 B	2472	14573	0155	00020	3237
0050 0075	0064 -0046	3201 B 32348	2569 2601	14489	0211	00042 00076	2313
0100	-C019 C	32635	2623	14468	0313	00119	1793
0125	0050 0164 D	32969 33371	2647 2672	14508	0355 0392	00167	1572
0175	0266 B	33737	2693	14623	0423	00270	1142

C-REF-NO 005 CONS. NO 145				WAVES 1 07X1 WAVES 2 00X0			VIS
LAT 49-148N	DAY 06	NO.DPTH	10	WND-DIR 070	WW-CODE	42	
LON 66-103W	HR 18.0	W-COLOR		WND-SPD 03	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1011.0	CLD-AMT	9	HW

GMT DEPTH TEMP	S A L OXYGEN	SGMT SOUND
180 0000 122 B	26893	2030 14880
180 0010 0947	27753	2141 14793
180 0019 0392 C	29891	2376 14600
180 0029 0241	31201	2493 14554
180 0048 0026	32065	2575 14472
180 0072 - 0057	32396	2605 14442
180 0096 +0011	326 7 9	2626 14471
180 0120 0076 B	33088	2655 14521
180 0144 0158 E	33353	2671 14565
180 0168 0244 D	33654	2688 14611

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	26893	2030	14880	0000	00000	7458
0010	0947	27753	2141	14793	0069	00003	6392
0020	0365 D	3006 C	2392	14591	0121	00011	3996
0030	0227	3128 E	2500	14549	0156	00019	2966
0050	0013	3211 D	2579	14467	0209	00040	2210
0075	-0056	32429	2608	14444	0261	00073	1937
0100	0002	3275 B	2631	14479	0307	00114	1717
0125	0093 B	3315 B	2658	14530	0347	00159	1461
0150	0181 C	3346 F	2677	14578	0381	00208	1286

C-REF-NO 005	YR 1963	DEPTH	183	WAVES 1 04X0	AIR T		VIS
CONS. NO 146	MONTH 7	MXSAMPD	01	WAVES 2 00X0	WET B		STN
LAT 49-189N	DAY 06	NO. DPTH	10	WND-DIR 040	WW-CODE	41	
LON 65-281W	HR 20.5	W-COLOR		WND-SPD 02	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1012.0	CLD-AMT	9	HW

GMT	DEPTH	TEMP	S A L OX	YGEN SGMT	SOUND
205 205 205 205 205 205 205 205 205	0000 0010 0018 0026 0042 0062 0082 0102	121 8 1052 0730 0258 0302 0020 -0058 -0042	26917 28644 29397 30256 31254 32002 32275 32457	2034 2194 2300 2416 2492 2570 2596 2610	14877 14844 14732 14548 14583 14471 14442 14455
205 205	0122 0142	0020 C 0121 B	32844 332 32	2638 2663	14492

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1210 B	26917	2034	14877	0000	00000	7423
0010	1052	28644	2194	14844	0067	00003	5887
0020	C604 H	2962 D	2333	14684	0119	00011	4561
0030	0218 I	3057 F	2444	14535	0160	00021	3501
0050	0199 I	31615	2529	14544	0222	00045	2693
0075	-0048 B	3221 E	2590	14444	0282	00083	2106
0100	-0047	3244 B	2608	14452	0333	00128	1934
0125	0031 B	3287 G	2639	14498	0378	00180	1640

C-REF-NO 005 CONS. NO 147 LAT 49-124N LON 64-464W	MONTH 7 DAY 06	MXSAMPC NO.DPTH	02 10	WAVES 1 09X2 WAVES 2 00X0 WND-DIR 100	WET B WW-CODE	 VIS
MARSD SQ 151				WND-SPD 10 BARO 1012.0		

GMT	DEPTH	TEM	Р	S A L OX	YGEN	SGMT	SOUND
230 230 230 230	0000 0010 0020 0030	111 1118 1125 1080	В	28386 28716 28810 28971		2165 2189 2195 2215	14860 14868 14874 14861
230 230 230	0049 0074 0098	0236 -0068 -0037	В	31472 32250 32580		2515 2594 2619	14558 14435 14458
230 230 230	0123 0148 0172		D C	33121 33611 33786		2657 2686, 2696	14525 14603 14630

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1110	8	28386		2165	14860	0000	00000	6169
0010	1118		28716		2189	14868	0061	00003	5939
0020	1125		28810		2195	14874	0120	00012	5882
0030	1080	C	28971		2215	14861	0178	00027	5692
0050	0212	В	3154 E		2522	14549	0263	00059	2762
0075	-0071		3227 B		2595	14435	0324	00096	2056
0100	-0030	В	32621		2622	14463	0372	00139	1800
0125	0096		33167		2660	14532	0413	00186	1448
0150	C219	G	3359 I		2685	14596	0446	00233	1212

C-REF-NO 005	YR 1963	DEPTH	267	WAVES 1 09X1	AIR T	12.5	VIS
CONS. NO 148	MONTH 7	MXSAMPC	02	WAVES 2 00X0	WET B	12.0	STN
LAT 49-005N	DAY 07	NO.DPTH	13	WND-DIR 080	WW-CODE	01	
LON 64-131W	HR 02.2	W-COLOR		WND-SPD 05	CLD-TPE	X	
MARSD SQ 151		W-TRNSP		BARO 1013.0	CLD-AMT	9	HW

GMT	DEPTH	TEM	р	SAL	OXYGEN	SGMT	SOUND
022	0000	131	В	26873		2012	14912
022	0010	1155		27201		2065	14863
022	0020	0598		29305		2309	14678
022	0030	0423		30071		2388	14617
022	0050	0246		31712		2533	14566
022	0075	-0066	С	32299		2598	14437
022	0100	-0030		32604		2621	14462
022	0125	0060	В	33042		2652	14514
022	0150	0166	C	33390		2673	14570
022	0175	0251	В	33664		2688	14615
022	0200	0340		33993		2707	14662
022	0225	0402	В	34226		2719	14696
022	0250	044C		34425		2731	14719

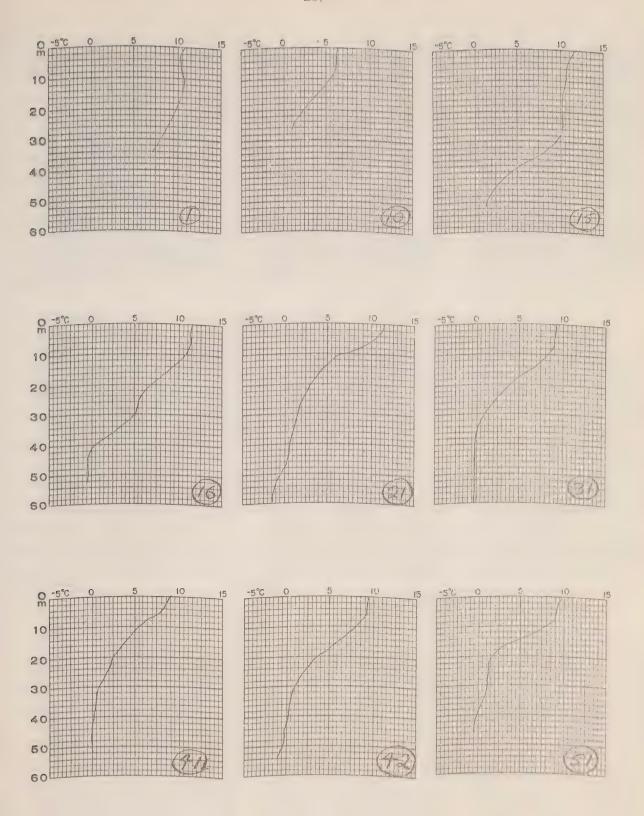
DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1010	-	0/070		2010		0000		7400
0000	1310	В	26873		2012	14912	0000	00000	7629
0010	1155		27201		2065	14863	0074	00004	7123
0020	0598		29305		2309	14678	0134	00012	4790
0030	0423		30071		2388	14617	0178	00023	4039
0050	0246		31712		2533	14566	0245	00049	2652
0075	-0066	C	32299		2598	14437	0304	00086	2033
0100	-0030		32604		2621	14462	0353	00129	1812
0125	0060	8	33042		2652	14514	0394	00177	1522
0150	0166	C	33390		2673	14570	0430	00227	1325
0175	0251	8	33664		2688	14615	0462	00280	1185
0200	0340		33993		2707	14662	0490	00333	1018
0225	0402	В	34226		2719	14696	0514	00386	0906
0250	0440		34425		2731	14719	0536	00438	0800

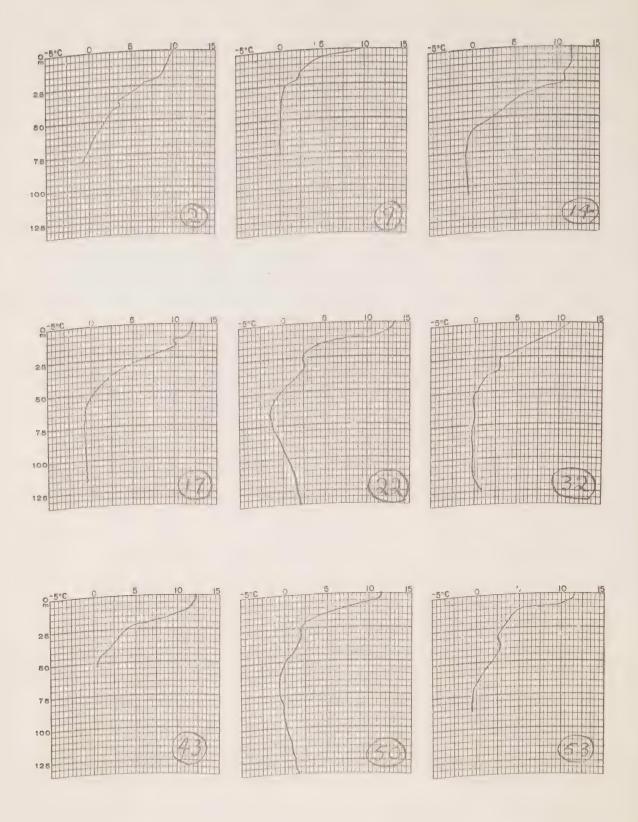
SECTION IV

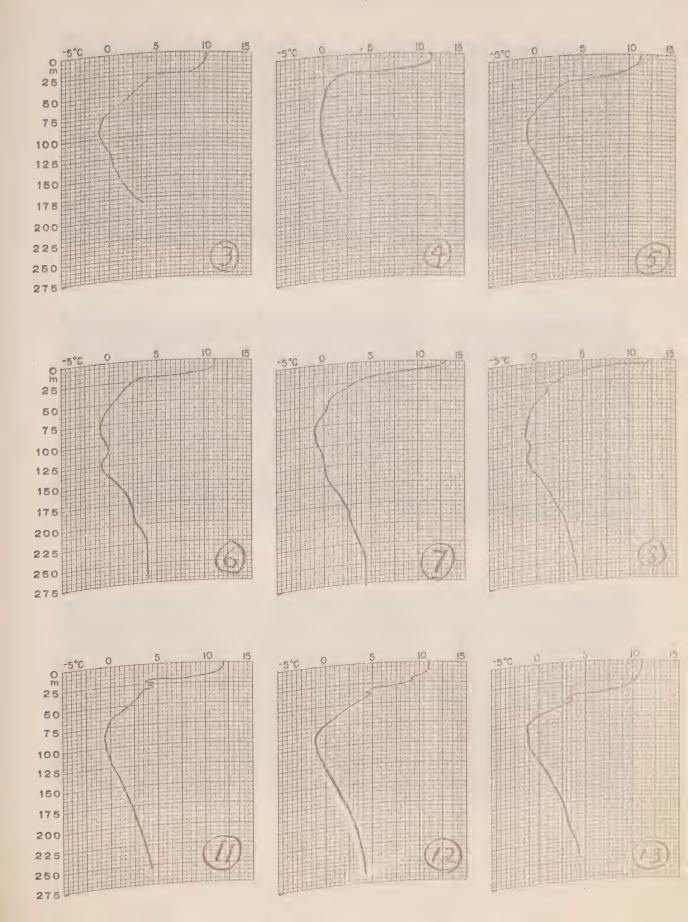
Sackville S - 73

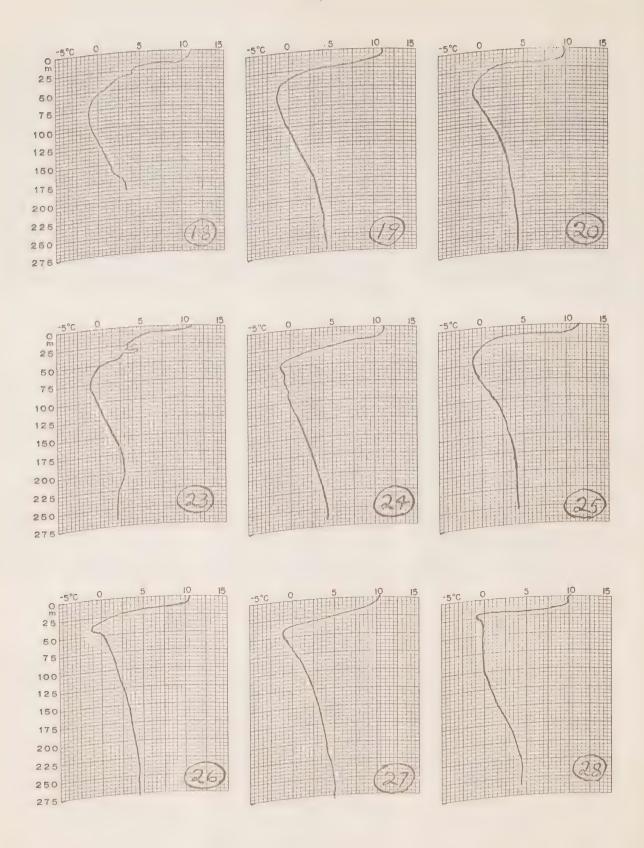
Bathythermograms

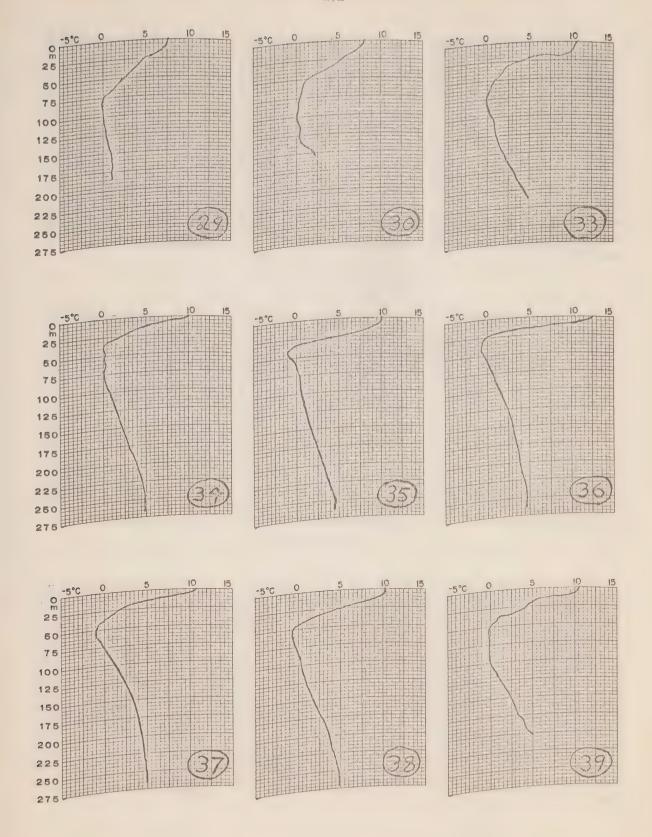


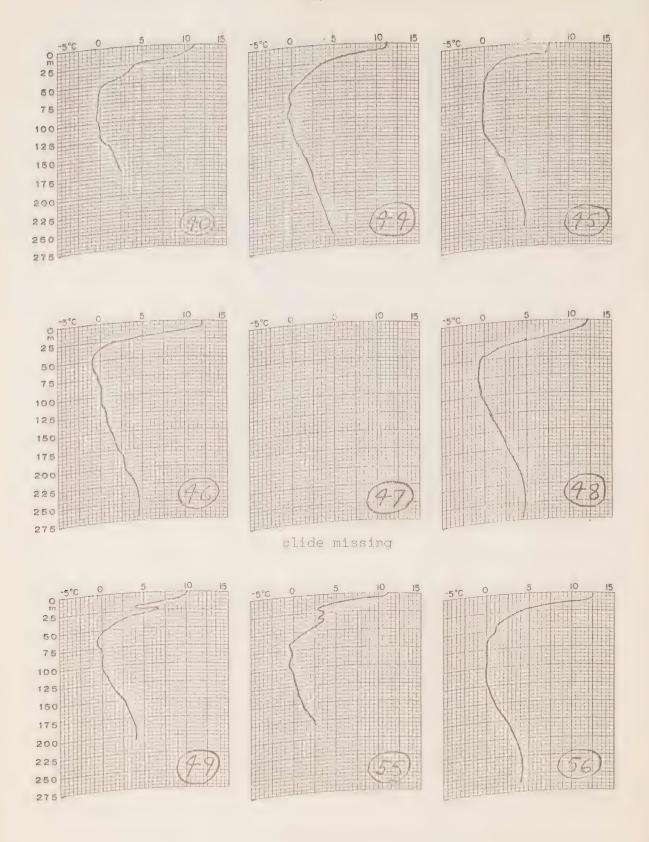


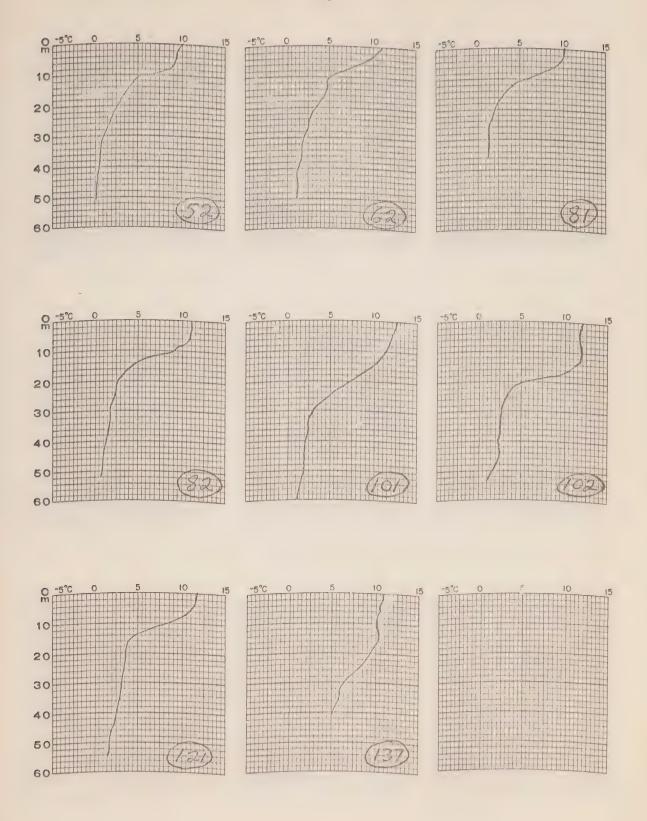


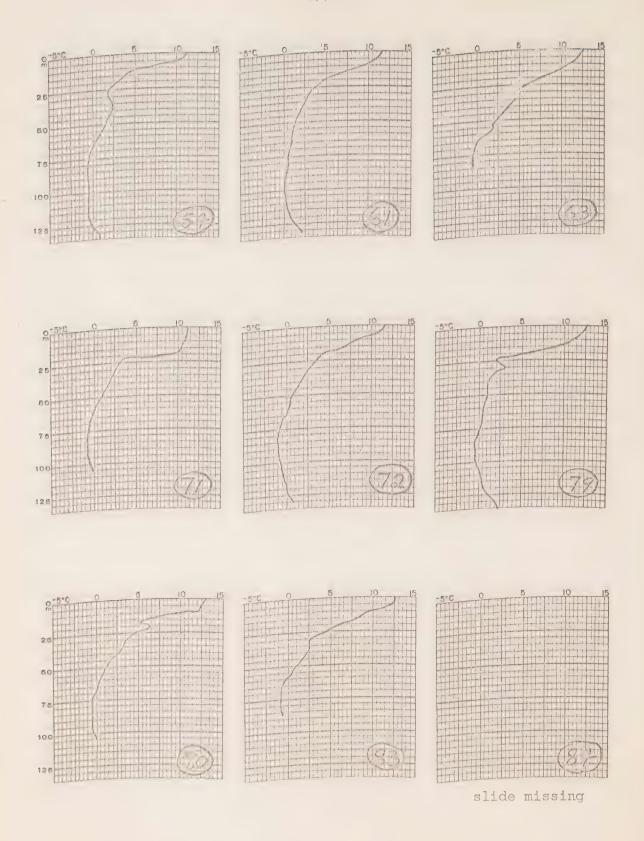


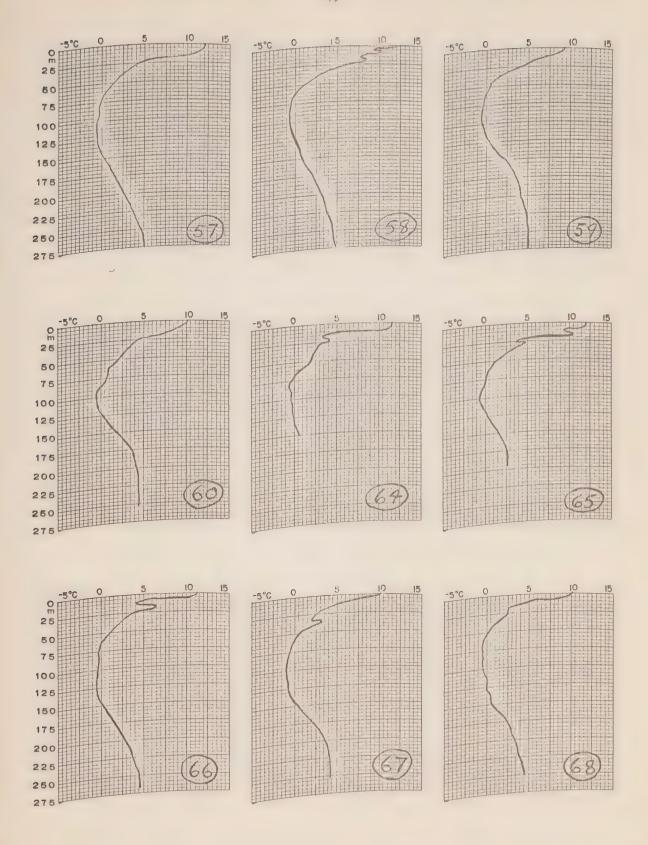


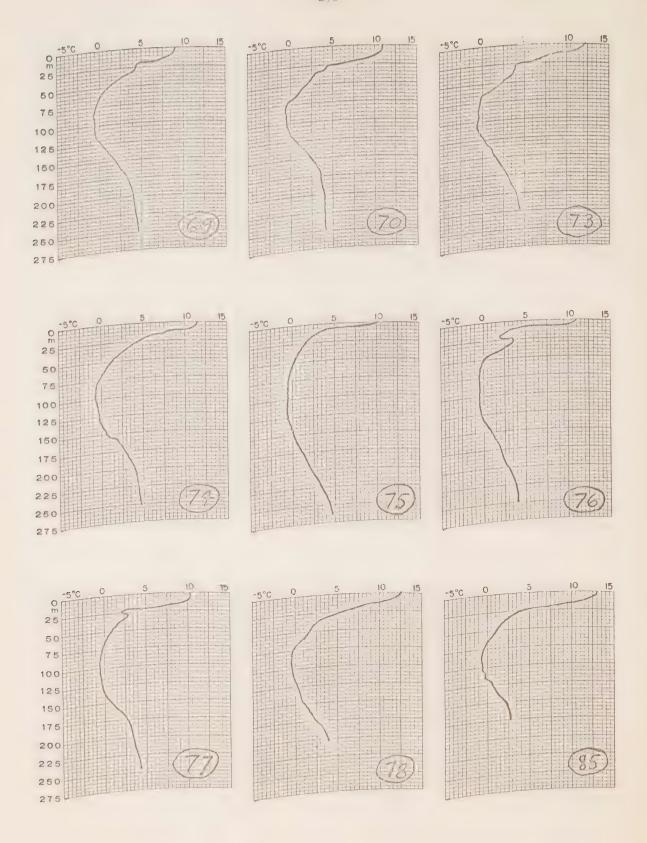


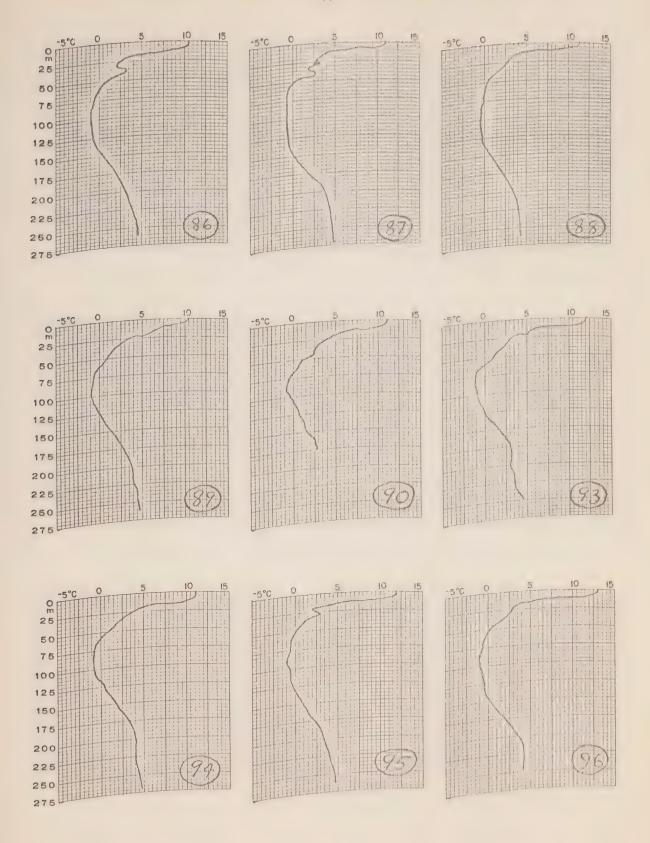


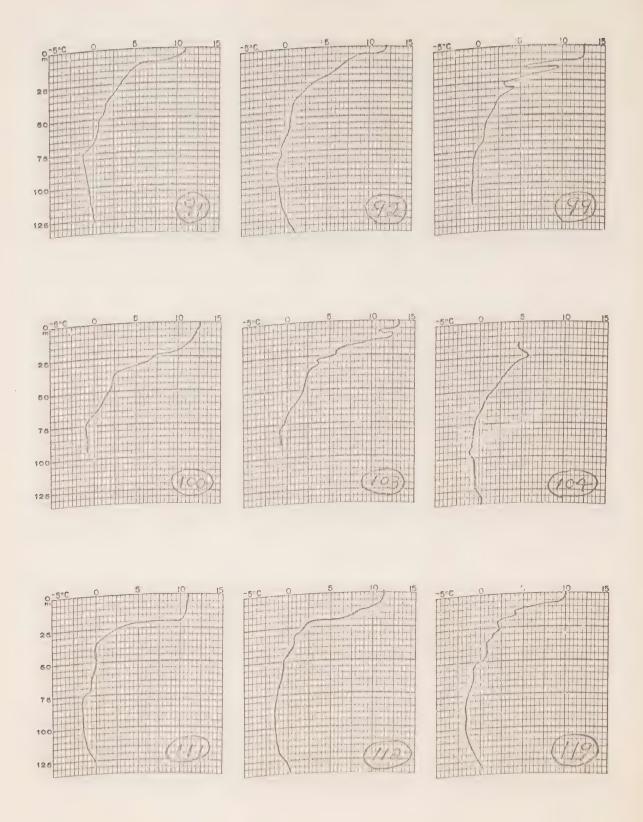


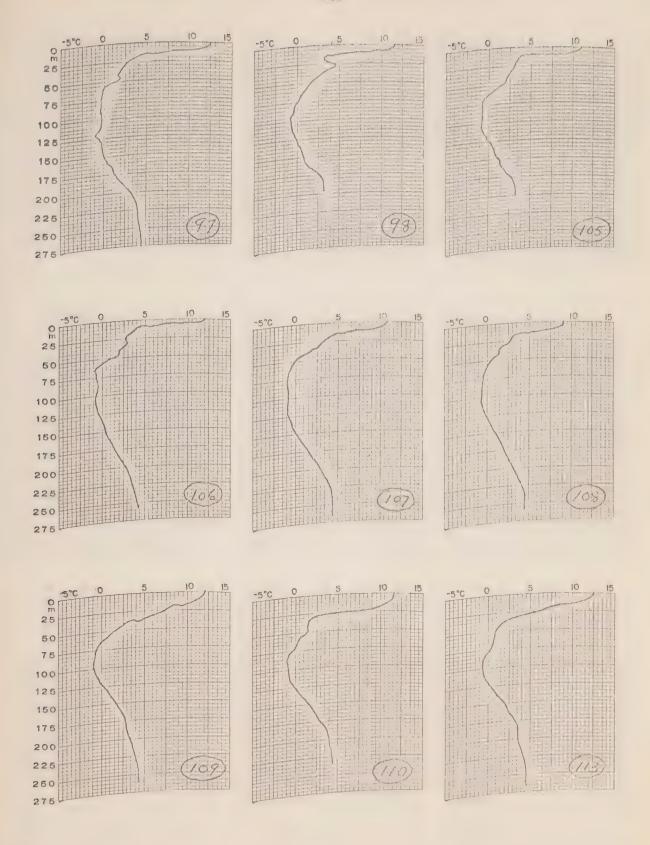


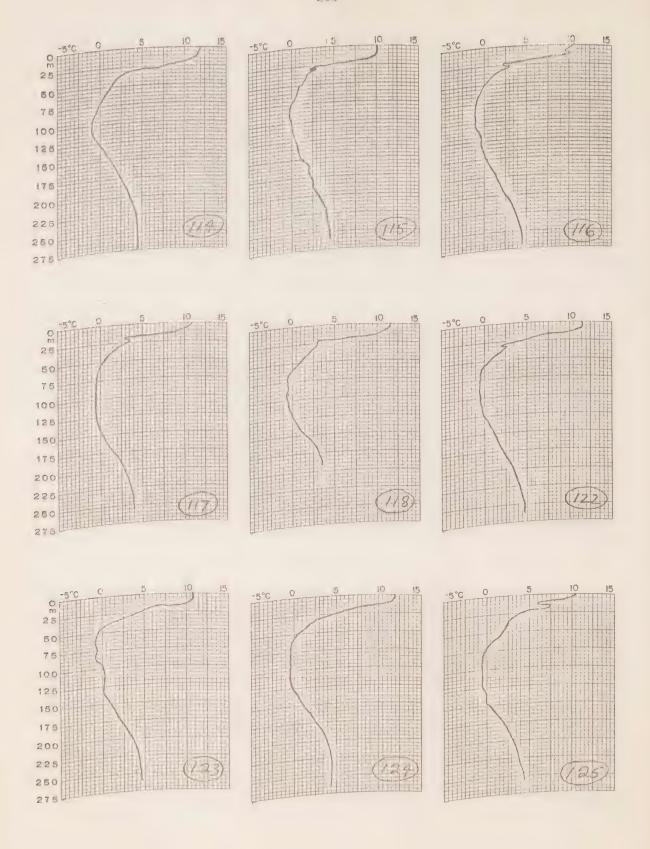


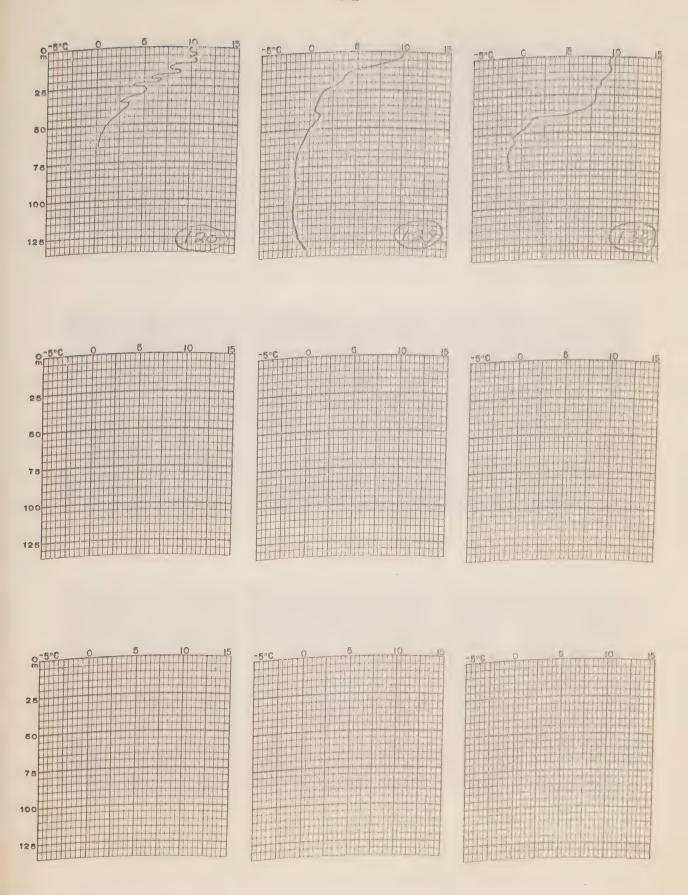


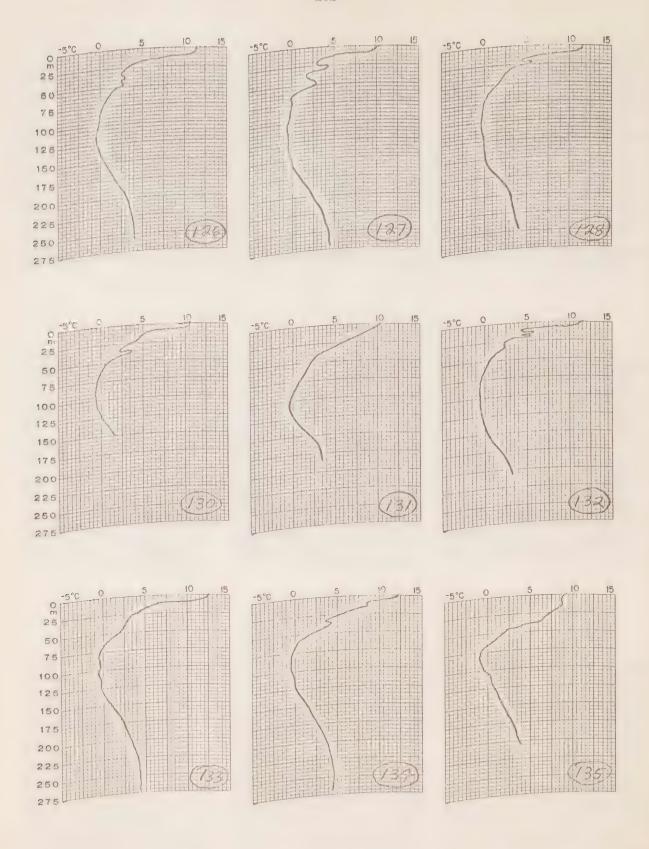


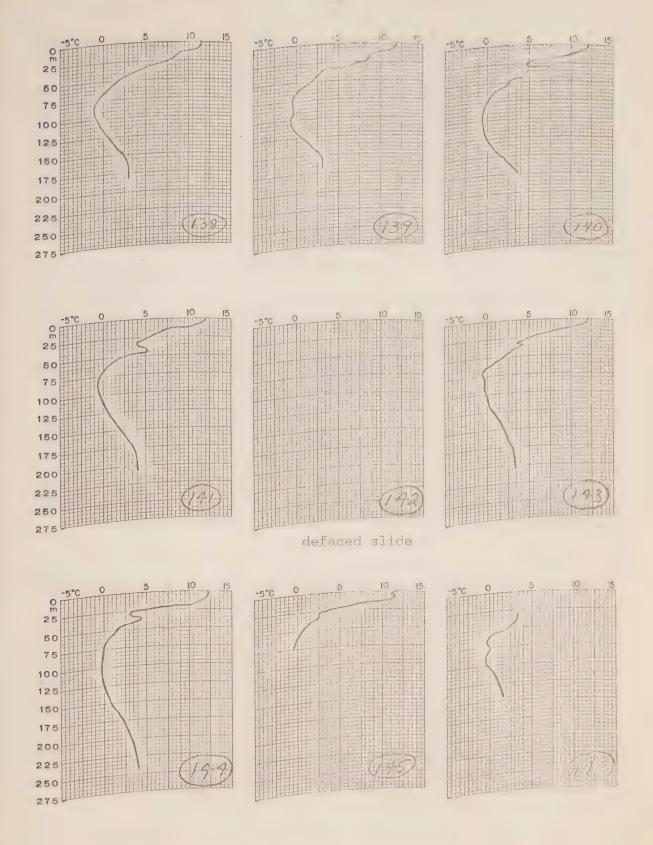


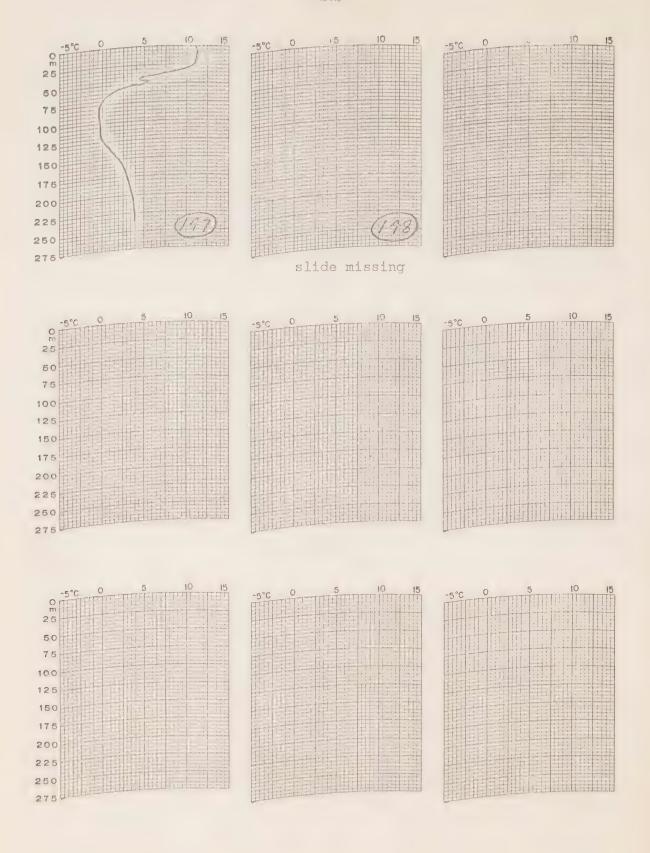












REFERENCES

Ekman, V.W. 1908

Die Zusammendruckbarkeit des Meerswassers nebst einigen Werten fur Wasser und Quecksilber. Publ. Circ. Cons. Explor. Mer., No. 43, 47 pp.

Knudsen, Martin, 1901

Hydrographischen Tabellen. Copenhagen, 63 pp.

Rattray, M. Jr., 1962

Interpolation errors and oceanographic sampling. Deep Sea Research. vol. 9, pp 25 to 37.

Sauer, C.D., and N.P. Fofonoff,

Oceans II, a computer program for processing oceanographic data (Publication pending).

Strickland, J.D.H.

MS, 1958. Standard methods of seawater analyses. Volume II. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 19, 78 pp.

Strickland, J.D.H., and T.R. Parsons, 1960

A manual of seawater analysis. Bull. Fish. Res. Bd. Canada, No. 125, 185 pp.

Wilson, W.D., 1960

Equation for the speed of sound in seawater. Journ. Acoust. Soc., America 32 (10); p. 1357.

PRINTED PUBLICATIONS OF THE CANADIAN OCEANOGRAPHIC DATA CENTRE

in the

1964 DATA RECORD SERIES

NO.	TITLE	CODC REFERENCE
1.	Hudson Bay Project - 1961	CRN 337
2.	Franklin and Darnley Bays, N.W.T.	04-63-002
3.	Southern Labrador to Northern Grand Bank	CRN 324
4.	Scotian Shelf	01-63-002
5	Ocean Weather Station "P"	02-63-005
6,	Scotian Shelf, Halifax Section	01-63-001
7.	Halifax Approaches and Cabot Strait	CRN 352
8	Gulf of St. Lawrence	CRN 345
9.	South-east of Grand Banks	CR N 355
10	South-east of Grand Banks	10-63-001
11,	Scotian Shelf to Tail of Grand Bank	10-63-002
12 *	Hudson Bay Project - 1961	CRN 354 and 337
13.	Great Bear Lake, N.W.T 1963 (Limnological Survey)	04-63-001
14.	ICNAF 1963, Norwestlant - 2, Canada	01-63-003
	(Labrador Sea and Davis Strait)	Part I 01-63-004 Part II
15.	Ocean Weather Station "P"	02-63-006
16.	Scotian Shelf, Cabot Strait and Continental Slope	CRN 369
	*This and the companion record No. 1 of the 1964 Series, comprise all the serial and BT data obta Hudson Bay during 1961 in M.V. "Calanus" and I	ined in



OCEAN WEATHER STATION "P" NORTH PACIFIC OCEAN

February 22 to April 25, 1964

No. 20 1964 Data Record Series

Canadian Oceanographic Data Centre

Programmed by the Canadian Committee on Oceanography

ROGER DUHAMEL, F. R. S. C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1964
Cat. No. M58-1/1964-20

CANADIAN OCEANOGRAPHIC DATA CENTRE

615 Booth Street, Ottawa 4

Data Record

OCEAN WEATHER STATION "P" NORTH PACIFIC OCEAN

(CODC Reference: 02-64-001)

No. 20

1964 Data Record Series

Programmed by the Canadian Committee on Oceanography



FISHERIES RESEARCH BOARD OF CANADA

Ocean Weather Station "P" North Pacific Ocean

Ships:

C.C.G.S. "St. Catharines" and C.C.G.S. "Stonetown"

Local Cruise

designations: P-64-1

Patrol No. 60

Cruise periods: Feb. 22, to April 9, 1964 April 6 to 25, 1964

Observers: Mr. D.G. Robertson

Mr. J. Wong

PACIFIC OCEANOGRAPHIC GROUP - Nanaimo, B.C.



SECTION I

Description of data collection procedures





Figure 1.

The Canadian Weathership C.C.G.S. " St. Catharines ".

(D.O.T. Photo)

The oceanographic winch is located on the starboard side of the signal deck, just aft of the bridge wing.



Figure 2.

The Canadian Weathership C.C.G.S. " Stonetown ".

(D.O.T. Photo)

Bathythermograph soundings boom can be seen below the bridge on the signal deck.



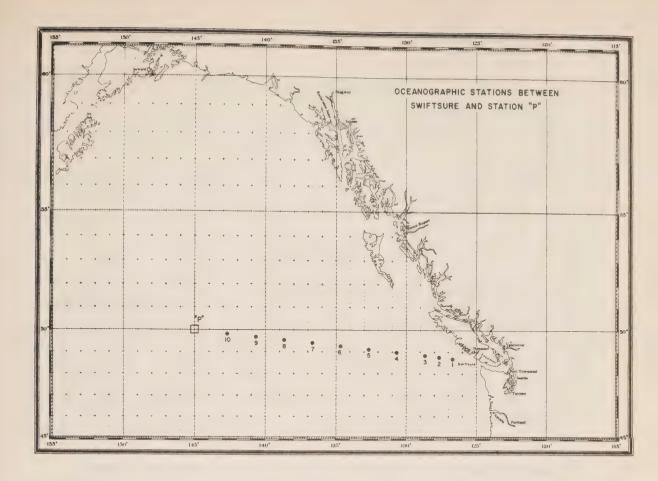


Figure 3. Locations of oceanographic stations observed between Swiftsure Bank and Ocean Weather Station "P".



INTRODUCTION

Canadian operation of Ocean Weather Station "P" (latitude 50°00'N, longitude 145°00'W) was inaugurated in December 1950. The Station is manned by two vessels of the Canadian naval frigate class operated by the Marine Services of the Department of Transport. They are the C.C.G.S. "St. Catharines" and the C.C.G.S. "Stonetown" (Fig. 1 and 2) (Atlantic Oceanographic Group, MS, 1961). Each ship remains on Station for a period of 6 weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch. The chief purpose of the Station is to operate as a meteorological station for surface and upper-air observations, and as an air-sea rescue station.

Twice-daily bathythermograph observations have been made at Station "P" by the Pacific Oceanographic Group since July 1952. A program of more extensive oceanographic observations at Station "P" was commenced in August 1956. This was further extended in April 1959 by the addition of a series of ten oceanographic stations along the route to and from Station "P" and Swiftsure Bank (Fig. 3).

The C.C.G.S. ''St. Catharines'' is equipped with deck and laboratory facilities required to make oceanographic observations. Oceanographers from the Pacific Oceanographic Group accompany the ship on each patrol. The C.C.G.S. ''Stonetown'' is equipped with bathythermograph sounding equipment only. BT observations are made by members of the ship's crew.

CRUISE LOG, C.C.G.S. "ST. CATHARINES", SURVEY P-64-1

February 21: ship departed Esquimalt, B.C. for Ocean Weather Station "P"; 7 oceanographic stations observed enroute from Swiftsure Bank.

February 24: relieved C.C.G.S. "Stonetown", and commenced normal Ocean Station patrol routine. Frequent periods of rough weather throughout the duration of the cruise made it necessary to cancel the 150 metre vertical plankton tow on 20 days at Station "P".

April 6: relieved by C.C.G.S. "Stonetown", and proceeded on return trip; 10 oceanographic stations observed enroute to Swiftsure Bank.

April 9: berthed at Esquimalt, B.C.

Fifteen oceanographic stations were observed at Ocean Station "P" - 8 to 400 m, 1 to 1200 m, 2 to 2000 m, 1 to 3000 m, 1 to 4100 m, and 2 to 4200 m depth. Dissolved oxygen determinations were made on the samples collected at these stations, but not on those from the stations observed enroute to and from Station "P". BT casts to 275 m were made at all oceanographic stations, and at each 40' of longitude during the trips between Station "P" and Swiftsure Bank. Twice-daily BT casts were made at Ocean Station "P"; one cast to 135 m at 0200 GMT and the other to 275 m at 1700 GMT. A surface salinity sample was collected at the 0200 BT cast.

Vertical plankton hauls from 150 m were made on 20 days at Station "P", as well as 2 hauls from 1200 m depth. Surface horizontal plankton tows were made during 9 evenings. Ocean productivity measurements of photosynthesis (C14 method) and plant pigment concentrations were made on 36 samples collected at the surface or to a depth of 60 m. Two bottom samples at 4200 m depth were collected.

BT observations to 135 m for the OCEAN series program (Giovando, MS, 1962) were made on 16 days.

CRUISE LOG, C.C.G.S. "STONETOWN", PATROL NO. 60

- April 3: departed Esquimalt, B.C. enroute to Ocean Weather Station "P"; no BT observations during the passage.
- April 6: relieved C.C.G.S. "St. Catharines", and commenced normal patrol routine of twice-daily BT observations at 0200 and 1700 GMT.
- April 26: BT winch broke down and it was not possible to make repairs, so BT observations were discontinued. BT log entries were continued, and surface salinity samples were collected at 0200 until May 18.
- May 18: relieved by C.C.G.S. "St. Catharines"; proceeded on return journey to base; no observations made enroute.
- May 21: berthed at Esquimalt, B.C.

Twice-daily BT observations were made on 17 days at Station "P". OCEAN series observations to 135 m were made on 13 days.

OBSERVATION PROCEDURES

- 1. Samples at depth were obtained with Nansen reversing water samplers. Shallow stations to 400 m were observed in one cast. Most of the deep stations were observed in two casts; the first to 400 m, and the second from 500 m to the deepest sampling depth. The 3 stations at Station "P" which extended to 4200 m were observed in 2 casts each, the first to 600 m, the second from 800 m to the deepest sample.
- 2. Temperatures at depth were measured by German or Japanese reversing thermometers. At stations 001 to 013, all samplers were equipped with two protected reversing thermometers except those at 30, 100 and 175 m. This order was changed at stations 014 to 032 so that all samplers were equipped with two protected thermometers except those at 20, 50, 100, 150 and 200 m. At all stations, one unprotected thermometer was mounted on all samplers from 250 m to the deepest depth.
- 3. Surface samples (0 metres) for salinity and dissolved oxygen determinations were obtained in a one-gallon bucket. The surface temperature was measured in this sample with an armoured thermometer graduated in $0.5C^{\circ}$ intervals.
- 4. Water transparency observations were made with a white secchi disc of 30 cm diameter.
- 5. Station locations were determined by officers of the watch, who also made the meteorological observations reported in the data record headings.

LABORATORY PROCEDURES

The salinity determinations of the oceanographic station samples and the 0200 surface samples collected during Survey P-64-1 were made on an inductive salinometer, Model 601 MK III, manufactured by Auto-Lab Industries Pty. Ltd., Sydney, Australia (Brown and Hamon, 1961). The samples were analysed on board ship. The salinity data are the means of duplicate determinations whose "conductivity ratio" values fell within an acceptable range. The accuracy of the determinations at the 35% salinity level is stated to be ±0.003% (Brown and Hamon, 1961). The surface samples collected at 0200 GMT during the "Stonetown" Patrol No. 60 were analysed in the shore laboratory using an inductive salinometer.

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Strickland and Parsons, 1960).

The ocean productivity measurements were made according to the methods described by Strickland (1960). Results will be reported later in a publication of the Fisheries Research Board.

BATHYTHERMOGRAPH DATA

The BT traces have been drawn on standard pre-printed graphs resembling BT calibration grids of several depth ranges. The slides were positioned on the appropriate calibration grid in an adjustable holder. All BT traces were aligned using a corrected temperature value obtained from a thermograph recording of the engine-room intake temperature. The top of the trace was always aligned with the zero-depth grid line.

The bathythermograms are arranged in a chronological order in 3 sections for each ship; the first section presenting the 135 m casts, the second the 275 m casts, and the third the OCEAN series casts. The date-time (GMT) and position information are listed below each bathythermogram, using the CODC coding system. BT observations made at an oceanographic station are identified by an asterisk (*) preceding the date-time group. Only one of the 8 slides in each OCEAN group is reproduced as a bathythermogram. This trace is considered to be representative of the group. The date-time information is that of the particular slide, but the position co-ordinates are those of the last slide in the group.

SURFACE SALINITY DATA

These are presented in a table listing the date-time, position, and salinity values. The data for the C.C.G.S. "St. Catharines" Survey P-64-1 are considered to have an accuracy of ±0.003% (Brown and Hamon, 1961). The C.C.G.S. "Stonetown" Patrol No. 60 data are from a single determination and have an accuracy range of +0.006%

PERSONNEL

The oceanographers on board C.C.G.S. "St. Catharines" for Survey P-64-1 were Messrs. D.G. Robertson and J. Wong. Assisting in the preparation of the data for presentation were: D.G. Robertson, J. Wong, H.J. Hollister and R.G. Tippett. The officers and men of the two ships assisted in making the oceanographic observations and the bathythermograph casts.



SECTION II

Description of the machine-generated data record



INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation cycle.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. If interpolations are carried out, additional derived quantities are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "estimate of precision" for each observed variable selected for interpolation at the standard oceanographic depth. The precision depends on the instrument or technique used to determine the variable.

A standard precision stated as a standard deviation (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" of section II of the data record.

The measurement error estimate of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "interpolation error estimate" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; first, to give an indication of the quality of interpolated data; second, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, O₂) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "measurement error estimate" comprises the "combined measurement and interpolation error estimate". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

	C COLV.	Man www was was was was was was was was was
and the second second	23 CONSEC. NUMBER	28
20	·	
20 20 20	1 11 - 12	72 72
		4 1
	1	C.
2-	GNED	Z
VESSEL	2	
2 16	1	
9 NO.	E 6, 3	
0 X 4 8 60		2 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
31	In 2	49
DEPTH BOTTOM 29 30		9) d :
T0 T0	1 2 6	9 2 2
THAE 1.7 11,	3	O
7.1.4.5 5.4.7 25.26		
23 24	Σ	in it is a second of the secon
2	A R	w
27. 22	-	
CC 177	1 1	
	3,8	n en
+ + + + + + + + + + + + + + + + + + + +		
€ (W=	5	
C	MAVES II Dw Pw Hw	
	WAVES II Dw Pw H	
	A BERLESHARD CO. AND THE STATE OF THE PARTY	47 H O F
MIN MIN	MAVES I DW PWH	S A A A A A A A A A A A A A A A A A A A
DEG. 0	W W O	
, 0111 /4		
COUNTRY INST.		The state of the s
DEN	010	

$$\frac{\mathcal{O}_{i}}{\mathcal{O}} = \left\{ \frac{(\Delta V_{i})^{2}}{\mathcal{O}^{2}} + \sum_{n=j-2}^{j+1} \left(\gamma_{n} \right)^{2} \left(\frac{\mathcal{O}_{n}}{\mathcal{O}} \right)^{2} \right\}^{1/2} \quad \text{, where}$$

 σ_i = Standard deviation of the combined error estimates at standard oceanographic depth,

 ΔV_t^t = the interpolation error estimate of variable "V" at standard oceanographic depth = $\frac{1}{3}$ ($V_{t_1} - V_{t_2}$)

Y = Interpolation polynomial coefficient.

 $Z_i = Observed depth.$

 Z_i^j = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma}{\sigma}$, if $\frac{\sigma}{\sigma}$, is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(10) DEPTH	(15) WAVES 1	(20) AIR T	(25) VIS
(2) CONS. NO	(7) MONTH	(11) MXSAMPD	(16) WAVES 2	(21) WET B	(26) STN
(3) LAT	(8) DAY	(12) NO. DPTH	(17) WND-DIR	(22) WW-CODE	
(4) LON	(9) HR	(13) W-COLOR	(18) WND-FCE	(23) CLD-TPE	
(5) MARSD SQ		(14) W-TRNSP	(19) BARO	(24) CLD-AMT	(27) HW

(1) CRUISE REFER-

ENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each

year (effective Jan. 1, 1963). Prior to that date the C.R.N. was a number

designated by C.O.D.C.

(2) CONSECUTIVE NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code (see Marsden square chart) in which

the observation is located.

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the Master-card data were

recorded.

It is reported to tenths of hours (Table 1).

If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates

that the reported time is doubtful.

(10) DEPTH: The sounding reported in metres. If corrected, this is stated in the

"GENERAL INFORMATION" chapter of section II. Charted depths are

denoted by the sounding value, preceded by the letter "C".

(11) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 0051 m - 150 m = 01

151 m - 250 m = 02

etc.

(12) NUMBER OF

DEPTHS: The number of levels observed (this is entered to initiate a computer

safety check, guarding against the loss of punch cards).

(13) WATER COLOUR:

A code based on the percentage of yellow (see table 2 and NOTE under

FIELD "14" below).

(14) WATER

TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in

diameter) just disappears from view, or the optical density expressed in

percentage;

NOTE: The "GENERAL INFORMATION" chapter in section II of the data record

will state which method was used.

(15) WAVES 1

(dwdwPwHw-code): The direction, period and height of the wind-propagated wave system.

(See Tables 3, 4 and 5). Ref: World Meteorological Organization Code

3155.

(16) WAVES 2

(dwdwPwHw-code): The direction, period and height of the predominant other-than wind-

propagated wave system. (See Tables 3, 4 and 5). Ref: World Meteorolo-

gical Organization Code 3155.

(17) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is

blowing. Wind direction 990 means:-wind variable or direction unknown.

(18) WIND FORCE

(WND-FCE):

Beaufort Notation (See Table 6).

WIND SPEED

(WND-SPD):

Anemometer reading reported in metres per second. Instrument height

reported in "GENERAL INFORMATION" chapter of section II.

(19) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMA-

TION" chapter in Section II of the data record will state the type of instru-

ment used.

(20) AIR

TEMPERATURE:

In degrees Celsius.

(21) WET BULB:

In degrees Celsius.

(22) ww CODE:

Present Weather Code (See Table 7), Ref: WMO Code 4677

(23) CLOUD TYPE:

The type of predominating clouds (See Table 8). Ref: WMO Code 0500.

(24) CLOUD AMOUNT:

The sky coverage in eighths (See Table 9) Ref: WMO Code 2700

(25) VISIBILITY:

Visibility at the surface (See Table 10). Ref: WMO Code 4300.

(26) STATION:

A station reference number, assigned by the institute prior to, or during

the survey.

(27) HOURS AFTER

HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(2) DEPTH (3) TEMP (1) GMT

(4) SAL

(5) OXYGEN

(6) SGMT

(7) SOUND

(8) PO.

(9)-P-

(10) NO, (11) NO, (12) SiO,

(13) pH.

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.:

The Greenwich Mean Time of (in-situ) thermometer inversion and sea water

sample collection.

When a multiple cast was initiated prior to and continued after midnight. the times indicated are uninterrupted by the change of day and appear

beyond 24.0 hours. This will be accompanied by a statement:

"MULTIPLE CAST CONTINUED NEXT DAY", which is printed following

the last level of observed values.

(2) DEPTH:

The depth in metres at the moment the oceanographic bottle reversed.

(3) TEMPERATURE:

Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of this section.

An alphabetical character following the Temperature value represents the measurement error estimate referred to in the INTRODUCTION to this

section.

(4) SALINITY:

Salinity as defined by: S = 0.03 + 1.805 C1%, reported in:

a. 1/100 parts per 1000, or b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measure-

ment error estimate as referred to under (3)

In case b: no error estimate indication is provided for, but an additional

decimal digit takes its place.

(5) OXYGEN:

The concentration of dissolved oxygen expressed in millilitres per litre to

2 decimal places.

An alphabetical character following the value is the measurement error

estimate as referred to under (3).

(6) SIGMA-T:

The specific gravity anomaly as defined by: (Specific gravity -1) X 10^3 (e.g., of reported as 2456, reads 24.56, and corresponds to a specific

gravity of 1.02456).

(7) SOUND:

The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

(8) PO₄

Phosphate - Phosphorus reported to hundredths of microgram-atoms per litre.

(9) -P-

Total Phosphorus reported to hundredths of microgram-atoms per litre.

(10) NO.

Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —

(11) NO.

Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.

(12) SiO.

Silicate-Silicon reported in whole microgram-atoms per litre.

(13) pH

The pH value.

NOTE: 'TRC' (trace) is reported when a chemical entry has a value smaller than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH

(2) TEMP

(3) SAL

(4) OXYGEN

(5) SGMT

(6) SOUND

(7) DELTA-D

(8) POT-EN

(9) SVA.

(1) DEPTH:

Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.

(2) TEMPERATURE:

Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).

(3) SALINITY:

- A. The reported salinity values are observed to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement

-the interpolated value is reported to three decimal places (e.g., 30.139).

- (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - -the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23C).
- B. The reported salinity values are observed to two decimal places and followed by the measurement error estimate.

-the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59B).

(4) OXYGEN:

Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record). (5) SIGMA-T:

Computed from temperature and salinity values at standard oceanographic depth.

(6) SOUND

VELOCITY:

Computed from temperature and salinity values at standard oceanographic depth, using Wilson's formula (1960).

(7) DELTA-D:

The geo-potential anomaly as defined by:

$$\Delta D = \int_{0}^{P} \delta dp$$

 ΔD is expressed in dynamic metres (10⁵ ergs/gram) and recorded to three decimal places (e.g., 2,345 dyn. metres).

(8) POTENTIAL ENERGY ANOMALY:

The Potential energy anomaly χ as defined by:

$$\chi = \frac{1}{g} \int_{0}^{p} p \delta dp = \int_{0}^{z} \rho p \delta dz$$

 χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).

(9) SPECIFIC VOLUME ANOMALY:

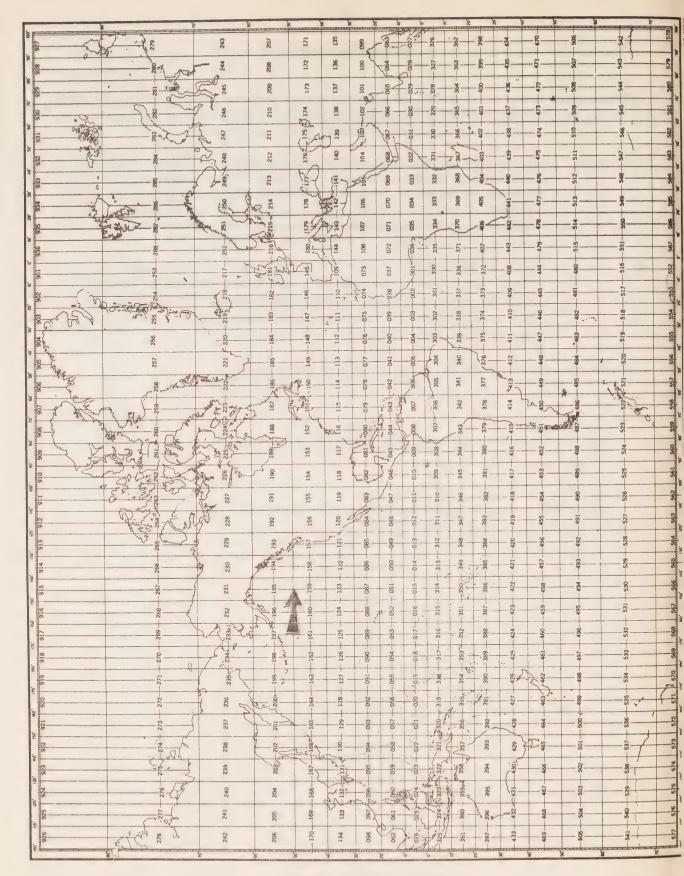
The specific volume anomaly as defined by:

$$\delta = \infty - \infty_{35,0,P}$$

 δ is expressed in ml/gr, and conventionally reported as 10⁵ δ , to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

- * (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs
- * (Asterisk): this character may occur in the interpolated portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one observed depth interval. The third, and all consequent levels within that interval are preceded by the asterisk to indicate that more than two machine interpolations were carried out, utilizing the same set of interpolation parabolas.
- appears occasionally in this data record, preceding an observed oxygen value. This "questionable" indicator infers that the value does not fit the usual pattern of oxygen distribution. "The questionable" value could be due to a sampling error and, generally, is not a result of an error in determination.



MARSDEN SQUARE CHART

Table 1

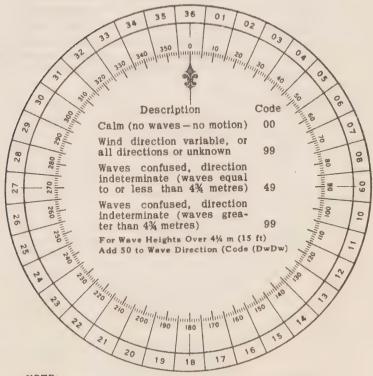
CONVERSION
MINUTES TO 1/40 HRS.

-	
Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	ă.
28-32	5
3339	6
40-44	7
45-51	8
52-56	9
5759	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE: Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (Pw)

(Measure to the Negrest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2 3 4 5 6	5 sec. or less 6 or 7 sec. 8 or 9 sec. 10 or 11 sec. 12 or 13 sec. 14 or 15 sec.	8 9 0 1 X	16 or 17 sec. 18 or 19 sec. 20 or 21 sec. Over 21 sec. Calm, or period not determined

Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: $1 = \frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m (2½ ft); $5 = 2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); $9 = 4\frac{1}{4}$ m (13½ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of 2% m is reported by code figure 5.

Code	Code
0 Less than ½ m (1 ft) 1 ½ m (1½ ft) 2 1 m (3 ft) 3 1½ m (5 ft) Add 4 2 m (6½ ft) 50 5 2½ m (8 ft) to 6 3 m (9½ ft) Dw Dw 7 3½ m (11 ft) 8 4 m (13 ft) 9 4½ m (14 ft) x Height not determined	0 5 m (16 ft) 1 5½ m (17½ ft) 2 6 m (19 ft) 3 6½ m (21 ft) 4 7 m (22½ ft) 5 7½ m (24 ft) 6 8 m (25½ ft) 7 8½ m (27 ft) 8 9 m (29 ft) 9 9½ m (30½ ft) or more

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and	
11	shock-like; visibility affected. Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam	Storm
1	lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
	Air is filled with foam and spray; sea com- pletely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Cod	e fig	ure
	ww	
except	00	Cloud development not observed or not observable characteristic
	01	Clouds generally dissolving change of the or becoming less developed state of sky
ex	02	State of sky on the whole unchanged during the past hour
	03	Clouds generally forming or developing
Φ /	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes
OK	05	Haze
or sm	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation
st, sand	07	Dust or sand raised by wind at or near the sta- tion at the time of observation, but no well de- veloped dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen
Haze, dust, sand or smoke	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour
	10	Mist
)	Patches of shallow fog or ice fog at the station, whether on land or sea, not deeper then shout 2 metres on
	12	continuous deeper than about 2 metres on land or 10 metres at sea
	13	Lightning visible, no thunder heard
	14	Precipitation within sight, not reaching the ground or the surface of the sea
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station
	17	Thunderstorm, but no precepitation at the time of observation
	18	Squalls at or within sight of the sta-
	19	Funnel clouds

ww = 20 - 3	29 20	Precipitation, fog, ice fog or thunderstorm the station during the preceding hour but not the time of observation Drizzle (not freezing) or snow
		grains
ł	21	Rain (not freezing)
	22	Snow not falling shower(s)
	23	Rain and snow or ice pellets, type (a)
	24	Freezing drizzle or freezing rain
	25	Shower (s) of rain
	26	Shower(s) of snow, or of rain and snow
	27	Shower(s) of hail, or of rain and hail
	28	Fog or ice fog
	29	Thunderstorm (with or without precipitation)
ww = 30 - 3	39	Duststorm, sandstorm, drifting or blowing sn
	30	Slight or mo- (- has decreased during preceding hour
	31	derate dust- storm or sand- the preceding hour
:	32	storm - has begun or has increaseduring the preceding hour
	33 \	/ - has decreased during
;	34 {	Severe dust- storm or sand- storm
	35 /	- has begun or has increaseduring the preceding hour
	36	Slight or moderate blowing snow generally low (below to blowing snow level)
:	37	Heavy drifting snow
5	38	Slight or moderate generally high (above
:	39	blowing snow Heavy blowing snow
ww = 40 - 40		Fog or ice fog at the time of observation
		Fog or ice fog at a distance at the time of servation, but not at the station during the p ceding hour, the fog or ice fog extending to level above that of the observer
4	41	Fog or ice fog in patches
4	42	Fog or ice fog, sky has become thinner dur
4	43	Fog or ice fog, sky the preceding hour invisible
4	14	Fog or ice fog, sky
4	15	Fog or ice fog, sky during the preceding he invisible
4	16	Fog or ice fog, sky visible Fog or ice fog, sky invisible The fog or ice fog, sky ding hour
·	17	Fog or ice fog, sky ding hour invisible
4	18	Fog, depositing rime, sky visible
4		Fog, depositing rime, sky invisible

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59	Drizzle	ww = 80 - 99 Showery precipitation, or precipitation with
50	The state of the s	current or recent thunderstorm
	ing, intermittent (slight at time of observa-	80 Rain shower(s), slight
51	Drizzle, not freez- \int tion ing, continuous	81 Rain shower(s), moderate or heavy
52		82 Rain shower(s), violent,
02	ing, intermittent moderate at time of ob-	83 Shower(s) of rain and snow mixed, slight
53	(84 Shower(s) of rain and snow mixed, moderate o
54		85 Snow shower(s), slight
	ing, intermittent (heavy (dense) at time of	86 Snow shower(s), moderate or heavy
55	Drizzle, not freez- observation	87 Shower(s) of snow pel- lets or ice pellets, type - slight
	ing, continuous	(b), with or without rain (
56	Drizzle, freezing, slight	88 for rain and snow mixed) - moderate or heavy
57	Drizzle, freezing, moderate or heavy (dense)	89) Shower(s) of hail, with or) - slight
58	Drizzle and rain, slight	without rain or rain and (
59	Drizzle and rain, moderate or heavy	snow mixed, not associ- ated with thunder - moderate or heavy
ww = 60 - 69	Rain	91 Slight rain at time of ob- servation
60	Rain, not freezing, intermittent slight at time of observa-	92 Moderate or heavy rain at
61	Rain, not freezing, tion continuous	time of observation thunderstorm during 93 Slight snow, or rain and the preceding hour
62	Rain, not freezing, intermittent (moderate at time of ob-	snow mixed or hail at but not at time of obtime of observation servation
63	Rain, not freezing, servation	94 Moderate or heavy snow,
	continuous	or rain and snow mixed
64	Rain, not freezing,	or hail at time of obser-
	intermittent (heavy at time of observa-	95 Thunderstorm, slight or \
65	Rain, not freezing, tion continuous	moderate, without hail, but with rain and/or
66	Rain, freezing, slight	snow at time of observa-
67	Rain, freezing, moderate or heavy	tion
68	Rain or drizzle and snow, slight	96 Thunderstorm, slight or moderate, with hail at
69	Rain or drizzle and snow, moderate or heavy	time of observation
70 - 79	Solid precipitation not in showers	97 Thunderstorm, heavy, thunderstorm at time
ww		rain and/or snow at time
70	Intermittent fall of snow slight at time of ob-	of observation 98 Thunderstorm, combined
71	Continuous fall of snow servation flakes	with duststorm or sand- storm at time of obser-
72	Intermittent fall of snow moderate at time of	vation 99 Thunderstorm, heavy,
73	Continuous fall of snow observation flakes	with hail at time of ob-
74	Intermittent fall of snow heavy at time of ob-	
75	Continuous fall of snow servation	
76	Ice prisms (with or without fog)	
	Snow grains (with or without fog)	
	Included attaching a new acceptable (with an without	

78 Isolated starlike snow crystals (with or without

79 Ice pellets, type (a)

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0 1 2 3 4	Cirrus		Nimbostratus Ns Stratocumulus Sc Stratus St Cumulus Cu Cumulonimbus Cb
Х	Cloud not visible owing to or other analogous phenomen	darknes	s, fog, duststorm, sandstorm,

Table 9. CLOUD AMOUNT CODE

-							
Code	Cloud Cover	Code	Cloud Cover				
0	0	6	6 oktas				
1	1 okta or less,	7	7 oktas or more.				
	but not zero		but not 8 oktas				
2	2 oktas	8	8 oktas				
3	3 oktas	9	Sky obscured, or				
4	4 oktas		cloud amount cannot				
5	5 oktas		be estimated				

Note: 1 okta = 1/8 of the sky covered

Table 10. VISIBILITY

Tuble to. Visibility		
Code	Estimate of hor. Visibility	
90 91 92 93 94 95 96 97 98 99	Less than 50 metres 50-200 metres 200-500 metres 500-1,000 metres 1-2 km 2-4 km 4-10 km 10-20 km 50 km or more	(less than 55 yards) (approx. 55-220 yards) (approx. 220-550 yards) (approx. 550 yards- % n.m.) (approx. 5-1 n.m.) (approx. 1-2 n.m.) (approx. 2-6 n.m.) (approx. 6-12 n.m.) (approx. 12-30 n.m.) (30 n.m. or more)

Note: n.m. = nautical mile

GENERAL INFORMATION

Institute: Pacific Oceanographic Group

Nanaimo, B.C.

Observation Platforms: C.C.G.S. "St. Catharines" and

C.C.G.S. "Stonetown"

Vessels' Cruising Speed: 13 knots

Total Number of Stations Occupied: 32

Anemometer Height Above Sea Level: 19 metres

Water transparency Secchi Disc.

Barometer readings Aneroid Barometer (corrected)

Air temperature Sling Psychrometer

Wet bulb temperature Sling Psychrometer

Surface sea water temperature Bucket sample (deck thermometer)

Depth to bottom U.S. Coast and Geodetic Survey

Chart 8500

The following <u>Standard Deviations</u> were used to express both measurement and interpolation error estimates:

Temperature 0.02

Salinity 0.003

Oxygen 0.03



SECTION III

Serial oceanographic data



C-REF-NO 001 YR 1964 DEPTH C 2935 WAVES 1 35XX AIR T 08.8 VIS 97 CONS. NO 001 MONTH 2 MXSAMPD 15 WAVES 2 3023 WET B 07.7 STN 004 LAT 49-01 N DAY 22 NO.DPTH 20 WND-DIR 350 WW-CODE 01 LON 130-40 W HR 18.4 W-COLOR 10 WND-SPD 07 CLD-TPE 0 MARSD SQ 158 W-TRNSP 25 BARO 1037. CLD-AMT 3 HW

OBSERVED

GMT	DEPTH	TEMI	p	SAL	OXYGEN	SGMT	SOUND
Ont	DEFIN	1 L, 11 1	r	J M L	ONTOLIN	3011	200110
184	0000	078	В	32528		2539	14789
184	0009	0764		32516		2540	14784
184	0019	0763 1	В	32517		2540	14786
184	0028	0762 1	В	32513		2540	14787
184	0047	0761		32505		2539	14789
184	0071	0762		32508		2540	14794
184	0094	0760	В	32506		2540	14797
184	0118	0702		32935		2581	14784
184	0141	0708	В	33635		2635	14799
184	0165	0674	В	33800		2653	14792
184	0188	0655	В	33841		2659	14788
184	0235	0611	В	33900		2669	14779
184	0282	0561		33915		2677	14767
184	0377	0491		33976		2690	14755
189	0495	0446		34064		2702	14757
189	0595	0426	C	34136		2709	14766
189	0793	0377	С	34279		2726	14780
189	0992	0322		34365		2738	14791
189	1191	0281		34437		2747	14808
189	1490	0234	В	34512		2758	14839

0000 0780 B 32528 2539 14789 0000 00000 2600 0010 0764 32516 2540 14784 0026 00001 2588 0020 0763 B 32517 2540 14786 0052 00005 2588 0030 0762 B 32512 2540 14787 0078 00012 2592 0050 0761 32505 2539 14790 0130 00033 2599 0075 0764 3249 C 2538 14795 0196 00076 2614 0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043 0150 0697 B 3374 F 2645 14797 0364 00263 1609	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0020 0763 B 32517 2540 14786 0052 00005 2588 0030 0762 B 32512 2540 14787 0078 00012 2592 0050 0761 32505 2539 14790 0130 00033 2599 0075 0764 3249 C 2538 14795 0196 00076 2614 0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043	0000	0780 B	32528	2539	14789	0000		
0020 0762 B 32512 2540 14787 0078 00012 2592 0050 0761 32505 2539 14790 0130 00033 2599 0075 0764 3249 C 2538 14795 0196 00076 2614 0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043 0100 0000	0010	0764	32516	2540	14784	0026	00001	
0050 0761 32505 2539 14790 0130 00033 2599 0075 0764 3249 C 2538 14795 0196 00076 2614 0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043	0020	0763 B	32517	2540	14786	0052	00005	2588
0075 0764 3249 C 2538 14795 0196 00076 2614 0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043 0261 00076 <td< td=""><td>0030</td><td>0762 B</td><td>32512</td><td>2540</td><td>14787</td><td>0078</td><td>00012</td><td>2592</td></td<>	0030	0762 B	32512	2540	14787	0078	00012	2592
0075 0764 3249 C 2538 14795 0196 00076 2614 0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043	0050	0761	32505	2539	14790	0130	00033	2599
0100 0745 C 3258 B 2547 14793 0261 00133 2530 0125 0703 B 3316 I 2599 14788 0318 00199 2043		0764	3249 C	2538	14795	0196	00076	2614
0125 0703 B 3316 I 2599 14788 0318 00199 2043		0745 C	3258 B	2547	14793	0261	00133	2530
0445 44707 0244 00247 1400	0125	0703 B	3316 I	2599	14788	0318	00199	2043
0130 0037 0 3374 1 2073 14771 0301 00203 2007	0150	0697 B	3374 F	2645	14797	0364	00263	1609
0175 0665 B 3383 B 2656 14790 0403 00329 1506			3383 8	2656	14790	0403	00329	1506
0200 0644 B 33860 2662 14786 0441 00400 1457			33860	2662	14786	0441	00400	1457
0225 0621 8 33891 2667 14781 0477 00479 1408			33891	2667	14781	0477	00479	1408
0250 0595 B 33907 2672 14775 0512 00564 1367		0595 B	33907	2672	14775	0512	00564	1367
0300 0545 33925 2679 14764 0579 00753 1298			33925	2679	14764	0579	00753	1298
0400 0479 33993 2692 14754 0704 01200 1182				2692	14754	0704	01200	1182
0500 0445 34068 2702 14757 0819 01730 1096				2702	14757	0819	01730	1096

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600 0700 0800 1000 1200	0425 C 0401 C 0375 C 0320 0278 0233 B	34140 34215 34283 34368 34439 34514		2710 2718 2726 2738 2748 2758	14766 14774 14780 14792 14808 14840	0927 1027 1120 1287 1435 1630	02335 03002 03717 05258 06923 09615	1029 0955 0883 0773 0686 0596

C-REF-NO 001 YR 1964 DEPTH C 3273 WAVES 1 49XX AIR T 09.4 VIS 98 CONS. NO 002 MONTH 2 MXSAMPD 15 WAVES 2 4923 WET B 07.7 STN 005 LAT 49-09 N DAY 23 NO.DPTH 20 WND-DIR 990 WW-CODE 02 LON 132-40 W HR 01.9 W-COLOR WND-SPD 01 CLD-TPE W-TRNSP BARO 1036. CLD-AMT 0 HW

OBSERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
019	0000	081	В	32534		2535	14801
019	0010	0739		32506		2543	14775
019	0020	0719		32504		2545	14769
019	0030	0716	В	32499		2545	14769
019	0050	0710		32504		2546	14770
019	0075	0702		32513		2548	14771
019	0100	0698	В	32504		2548	14773
019	0125	0690		32993		2587	14781
019	0150 ASK	0638		33578		2640	14772
019	0175	0628	В	33755		2656	14774
019	0200	0611	В	33814		2662	14772
019	0250	0563		33883		2674	14762
019	0300	0495		33902		2683	14743
019	0400	0436		33996		2697	14736
024	0500	0414		34123		2710	14745
024	0600	0398	В	34193		2717	14756
024	0800	0357	C	34298		2729	14773
024	1000	0310		34380		2740	14788
024	1200	0278		34441		2748	14808
024	1500	0237	В	34517		2758	14842

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0810 B	32534		2535	14801	0000	00000	2637
0010	0739	32506		2543	14775	0026	00001	2563
0020	0719	32504		2545	14768	0052	00005	2540
0030	0716 B	32499		2545	14769	0077	00012	2541
0050	0710	32504		2546	14770	0128	00033	2532
0075	0702	32513		2548	14771	0192	00073	2518
0100	0698 B	32504		2548	14773	0255	00130	2523
0125	0690	32993		2587	14781	0314	00198	2152
0150	0638	33578		2640	14772	0362	00264	1653
0175	0628 B	33755		2656	14774	0402	00331	1511
0200	0611 B	33814		2662	14772	0439	00402	1449
0225	0589 B	33856		2668	14768	0475	00480	1395
0250	0563	33883		2674	14762	0510	00565	1345
0300	0495	33902		2683	14743	0575	00749	1257
0400	0436	33996		2697	14736	0696	01179	1130
0500	0414	34123		2710	14745	0804	01678	1020

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0398	-	34193 34250		2717 2723	14756 14765	0904 0998	02242	0959
0800	0357	-	34298 34380		2729 2740	14773	1087 1250	03553	0852 0753
1200 1500	0278 0237	В	34441 34517		2748 2758	14808 14842	1395 1590	06689 09384	0685 0599

C-REF-NO 001 YR 1964 DEPTH C 3557 WAVES 1 36XX AIR T 06.1 VIS 97 CONS. NO 003 MONTH 2 MXSAMPD 15 WAVES 2 4922 WET B 04.9 STN 006 LAT 49-19 N DAY 23 NO.DPTH 20 WND-DIR 360 WW-CODE 03 LON 134-40 W HR 09.4 W-COLOR WND-SPD 06 CLD-TPE 7 W-TRNSP BARO 1037. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
094	0000	069	В	32550		2553	14754
094	0010	0692		32536		2551	14757
094	0020	0692		32535		2551	14758
094	0030	0686	8	32537		2552	14758
094	0049	0680		32546		2554	14758
094	0074	0674		32546		2554	14760
094	0099	0673	В	32536		2554	14764
094	0123	0628		33515		2637	14763
094	0148	0607	C	33709		2655	14761
094	0172	0592	В	33804		2664	14760
094	0197	0586		33849		2668	14762
094	0246	0546		33906		2678	14755
094	0296	0504		33931		2685	14746
094	0395	0459		34002		2695	14745
099	0500	0431		34125		2708	14752
099	0600	0404	C	34207		2717	14759
099	0800	0351	C	34310		2731	14771
099	1000	0304		34389		2742	14785
099	1200	0269		34457		2750	14804
099	1500	0234		34513		2758	14841

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0690 B	32550	2553	14754	0000	00000	2466
0010	0692	32536	2551	14757	0025	00001	2480
0020	0692	32535	2551	14758	0050	00005	2482
0030	0686 B	32537	2552	14758	0075	00012	2474
0050	0680	32546	2554	14758	0124	00032	2462
0075	0674	3254 B	2554	14760	0186	00072	2466
0100	0671 B	3258 D	2557	14764	0248	00127	2436
0125	0626	3355 C	2640	14762	0300	00185	1656
0150	0605 C	33720	2656	14761	0339	00241	1506
0175	0591 B	33811	2665	14760	0376	00303	1424
0200	0584	33854	2669	14762	0412	00371	1387
0225	0566	33886	2674	14759	0446	00446	1343
0250	0542	33908	2678	14754	0480	00527	1302
0300	0502	33933	2685	14746	0544	00707	1241
0400	0457	34008	2696	14745	0664	01138	1145
0500	0431	34125	2708	14752	0774	01645	1038

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0404 C	34207		2717	14758	0875	02212	0955
0700	0377 C	34265		2725	14764	0968	02834	0891
0800	0351 C	34310		2731	14771	1056	03506	0836
1000	0304	34389		2742	14785	1215	04973	0740
1200	0269	34457		2750	14804	1357	06574	0663
1500	0234	34513		2758	14841	1549	09227	0598

C-REF-NO 001 YR 1964 DEPTH C 3767 WAVES 1 3522 AIR T 05.5 VIS 96 CONS. NO 004 MONTH 2 MXSAMPD 34 WAVES 2 49XX WET B 04.9 STN 007 LAT 49-26 N DAY 23 NO.DPTH 24 WND-DIR 350 WW-CODE 02 LON 136-40 W HR 17.44 W-COLOR 10 WND-SPD 06 CLD-TPE 6 W-TRNSP 17 BARO 1039. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND
174 174	0000	063 B 0630	32610 32590	2565 2564	14731 14733
174 174	0020 0030	0630 0631 :B	32585 32581	2563 2563	14734 14736
174	0050	0629 0622	32587 32595	2563 2565	14739 14740
174 174 174	0099 0124 0149	0620 8 0640 - 0596	32595 33076	2565 2601	14743
174	0174	0612 B 0570	33627 33815 33839	2650 2662 2669	14755 14768 14756
174 174	0249	0539 0502	33923 33937	2680 2685	14753
174 174	0398 0497	0445 0415	34003 34087	2697 2707	14740 14744
174 183	0597 0797	0398 C 0364	34187 34292	2716 2728	14755 14775
183 183 183	0992	0316 0282 C	34359 34433	2738 2747	14788
183 183	1483 1977 2472	0240 B 0193 B 0172	34502 34597 34634	2756 2768 2772	14840 14905 14981
183 183	2964 3450	0160 0154	34667 34675	2776 2777	15061 15143

47
53
58
73
59
57
49
)5
55
+3
78
26
5575547547

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0250	0538	33924		2680	14753	0478	00533	1285
0300	0501	33938		2686	14746	0541	00712	1236
0400	0444	34005		2697	14739	0661	01139	1133
0500	0414	34090	•	2707	14745	0771	01645	1045
0600	0398 C	34189		2717	14756	0872	02216	0962
0700	0381 B	3425 B		2723	14766	0967	02845	0906
0800	0363	34293		- 2728	14776	1056	03534	0862
1000	0314	34362		2738	14789	1221	05055	0771
1200	0280 C	34436		2748	14809	1369	06724	0691
1500	0238 B	34506		2757	14842	1567	09452	0608
2000	0192 B	34599		2768	14908	1850	14496	0507
2500	0171	34636		2772	14985	2099	20267	0472
3000	0159	34665		2776	15067	2335	26955	0451

C-REF-NO 001 YR 1964 DEPTH C 3886 WAVES 1 04XX AIR T 05.5 VIS 97 CONS. NO 005 MONTH 2 MXSAMPD 15 WAVES 2 49XX WET B 03.8 STN 008 LAT 49-33 N DAY 24 NO.DPTH 20 WND-DIR 040 WW-CODE 02 LON 138-40 W HR 01.7 W-COLOR 10 WND-SPD 05 CLD-TPE 8 W-TRNSP 14 BARO 1039. CLD-AMT 4 HW

OBSERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
017	0000	066	В	32600		2561	14743
017	0010	0651		32600		2562	14741
017	0020	0646		32587		2561	14741
017	0030	0644	В	32601		2563	14742
017	0050	0629		32603		2565	14739
017	0075	0618	В	32637		2569	14739
017	0100	0596	В	32909		2593	14738
017	0125	0580		33562		2646	14744
017	0150	0588	В	33785		2663	14754
017	0175	0576	В	33848		2669	14755
017	0200	0555	В	33873		2674	14750
017	0250	0497		33883		2682	14735
017	0300	0429		33875		2688	14715
017	0400	0431		34022		2700	14734
022	0498	0388		34098		2710	14733
022	0598	0378	C	34204		2720	14747
022	0797	0344	C	34313		2732	14767
022	0997	0299	В	34386		2742	14782
022	1196	0270		34449		2749	14804
022	1496	0231		34511		2758	14839

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0660	В	32600		2561	14743	0000	00000	2391
0010	0651		32600		2562	14741	0024	00001	2381
0020	0646		32587		2561	14741	0048	00005	2386
0030	0644	В	32601		2563	14742	0072	00011	2374
0050	0629		32603		2565	14739	0120	00031	2357
0075	0618	В	32637		2569	14739	0178	00068	2321
0100	0596	В	32909		2593	14738	0234	00118	2094
0125	0580		33562		2646	14744	0280	00170	1590
0150	0588	В	33785		2663	14754	0318	00224	1436
0175	0576	8	33848		2669	14755	0354	00283	1378
0200	0555	В	33873		2674	14750	0388	00349	1337
0225	0528	B	33882		2678	14744	0421	00421	1301
0250	0497		33883		2682	14735	0454	00500	1268
0300	0429		33875		2688	14715	0516	00676	1204
0400	0431		34022		2700	14734	0633	01092	1105
0500	0388		34100		2711	14734	0739	01583	1009

DEPTH	TEMP	SAL	OXYGEN	SGMT	SDUND	DELTA-D	POT.EN	SVA
0600	0378 C	34206		2720	14747	0837	02134	0928
0700	0362 C	3427 B		2727	14758	0928	02740	0870
0800	0343 C	34314		2732	14767	1014	03400	0825
1000	0298 B	34387	,	2742	14783	1172	04852	0735
1200	0267 B	34448		2750	14803	1314	06454	0667
1500	0231	34512		2758	14839	1506	09107	0595

C-REF-NO 001	YR 1964	DEPTH C 3877	WAVES 1 1121	AIR T 04.4	VIS 97
LAT 49-41 N	DAY 24	NO-DPTH 20	WAVES 2 2724 WND-DIR 110	WET 8 03.3	STN 009
LUN 140-40 W	HR 09.2	W-COLOR	WND-SPD 05		
MARSD SQ 159		W-TRNSP	BARO 1037.		

			**			
GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
092	0000	059 8	32686		2576	14716
092	0010	0576	32683		2578	14712
092	0020	0577	32686		2578	14714
092	0030	0576 B	32688		2578	14715
092	0050	0577	32681		2577	14719
092	0075	0562	32702		2581	14717
092	0100	0558 B	32776		2587	14721
092	0125	0529	33335		2635	14720
092	0150	0512	33611		2658	14721
092	0175	0508 8	33705		2666	14725
092	0200	0500 B	33765		2672	14727
092	0250	0466	33825		2680	14721
092	0300	0428	33863		2688	14714
092	0400	0393	33978		2700	14718
097	0497	0380	34069		2709	14729
097	0597	0371 C	34155		2717	14743
097	0797	0338 C	34283		2730	14764
097	0997	0296 B	34374		2741	14781
097	1197	0266	34445		2749	14802
097	1497	0236	34504		2757	14841

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0590 B	32686		2576	14716	0000	00000	2243
0010	0576	32683		2578	14712	0023	00001	2230
0020	0577	32686		2578	14714	0045	00005	2230
0030	0576 B	32688		2578	14715	0067	00010	2229
0050	0577	32681		2577	14719	0112	00029	2237
0075	0562	32702		2581	14717	0168	00065	2207
0100	0558 B	32776		2587	14721	0223	00114	2149
0125	0529	33335		2635	14720	0272	00169	1701
0150	0512	33611		2658	14721	0312	00225	1478
0175	0508 B	33705		2666	14725	0348	00286	1406
0200	0500 B	33765		2672	14726	0383	00352	1354
0225	0485 B	33801		2677	14725	0416	00426	1313
0250	0466	33825		2680	14721	0449	00505	1277
0300	0428	33863		2688	14714	0512	00682	1212
0400	0393	33978		2700	14718	0628	01098	1097
0500	0380	34072		2709	14730	0735	01591	1021

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0371 C	34157		2717	14744	0835	02154	0956
0700	0356 C	34227		2724	14755	0929	02777	0896
0800	0337 C	34285		2730	14765	1016	03453	0840
1000	0295 B	34375		2741	14781	1176	04924	0741
1200	0265	34445		2750	14802	1319	06532	0667
1500	0236	34504		2757	14841	1513	09213	0607

C-REF-NO 001 YR 1964 DEPTH C 3913 WAVES 1 1823 AIR T 05.5 VIS 97 CONS. NO 007 MONTH 2 MXSAMPD 15 WAVES 2 1823 WET B 04.4 STN 010 LAT 49-45 N DAY 24 NO.DPTH 20 WND-DIR 180 WW-CODE 02 LON 142-40 W HR 19:4' W-COLOR 10 WND-SPD 13 CLD-TPE 8 W-TRNSP 15 BARO 1031. CLD-AMT 6 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
	*			ONTOCK	30,11	300110
194	0000	056 B	32745		2584	14705
194	0010	0537	32729		2586	14697
194	0020	0538	32724		2585	14699
194	0030	0539 B	32725		2585	14701
194	0050	0533	32727		2586	14702
194	0075	0511	32749		2590	14697
194	0100	0507 B	32749		2591	14699
194	0125	0460 '	33197		2631	14690
194	0150	0439	33598		2665	14691
194	0175	0443 B	33714		2674	14698
194	0200	0456 B	33779		2678	14708
194	0250	0430	33843		2686	14707
194	0300	0410	33894		2692	14707
194	0400	0381	34009		2704	14713
199	0493	0367	34110		2713	14724
199	0591	0350 C	34195		2722	14734
199	0788	0324 C	34310		2733	14757
199	0987	0295 C	34379		2742	14779
199	1185	0264	34443		2749	14800
199	1485	0234	34517		2758	14838

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0560 B	32745	2584	14705	0000	00000	2165
0010	0537	32729	2586	14697	0022	00001,	2,152
0020	0538	32724	2585	14699	0043	00004	2158
0030	0539 B	32725	2585	14701	0065	00010	2159
0050	0533	32727	2586	14702	0109	00028	2153
0075	0511	32749	2590	14697	0162	00062	2115
0100	0507 B	32749	2591	14699	0215	00110	2113
0125	0460	33197	2631	14690	0264	00165	1729
0150	0439	33598	2665	14691	0303	00220	1408
0175	0443 B	33714	2674	14698	0338	00278	1328
0200	0456 B	33779	2678	14708	0371	00341	1295
0225	0447 B	33817	2682	14709	0403	00412	1259
0250	0430	33843	2686	14707	0434	00488	1224
0300	0410	33894	2692	14707	0495	00658	1170
0400	0381	34009	2704	14713	0607	01060	1062
0500	0366	34117	2714	14725	0710	01533	0973

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600 0700 0800 1000 1200	0349 C 0335 C 0322 C 0293 C 0265 B	34202 34266 34315 34383 34446 34520		2722 2729 2734 2742 2750 2758	14735 14747 14759 14780 14802 14840	0805 0893 0976 1131 1273 1464	02066 02653 03294 04724 06321 08965	0899 0844 0801 0732 0666 0591

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 2024 AIR T 05.5 VIS 96 CONS. NO 008 MONTH 2 MXSAMPD 12 WAVES 2 2735 WET B 05.5 STN LAT 50-00 N DAY 28 NO.DPTH 19 WND-DIR 200 WW-CODE 61 LON 145-02 W HR 19.0 W-COLOR 10 WND-SPD 12 CLD-TPE 9 W-TRNSP 09 BARO 1001. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEM	p	SAL	OXYGEN	SGMT	SOUND
190	0000	051	В	32771	708 B	2592	14685
190	0010	0486		32774	715 B	2595	14676
190	0020	0488		32773	723 B	2595	14679
190	0030	0486	В	32772	714 B	2595	14680
190	0050	0485		32775	718 B	2595	14682
190	0075	0486		32778	722 B	2595	14687
190	0100	0488	В	32774	719 B	2595	14692
190	0125	0437		33108	626 B	2627	14679
190	0150	0374		33540	495 B	2667	14663
190	0175	0356	В	33634	410 B	2677	14660
190	0200	0350	В	33697	342 B	2682	14663
190	0250	0351	В	33763	264 B	2687	14672
190	0300	0355		33868	190 B	2695	14684
190	0400	0366		34025	129 B	2707	14707
190	0500	0360		34125	100 B	2715	14722
190	0600	0348	C	34217	079 B	2724	14735
202	0779	0319	В	34304	065 B	2733	14754
202	0977	0290		34389	2070	2743	14775
202	1176	0262	В	34445	066	2750	14797

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0510 B	32771	708 B	2592	14685	0000	00000	2090
0010	0486	32774	715 8	2595	14676	0021	00001	2064
0020	0488	32773	723 B	2595	14679	0042	00004	2067
0030	0486 B	32772	714 B	2595	14680	0063	00010	2067
0050	0485	32775	718 B	2595	14682	0104	00027	2065
0075	0486	32778	722 B	2595	14687	0156	00060	2066
0100	0488 B	32774	719 B	2595	14692	0208	00107	2074
0125	0437	.33108	626 B	2627	14679	0257	00162	1772
0150	0374	33540	495 B	2667	14663	0296	00218	1387
0175	0356 B	33634	410 B	2677.	14660	0330	00274	1301
0200	0350 B	33697	342 B	2682	14663	0362	00336	1249
0225	0349 B	3373 B	298 B	2685	14667	0394	00404	1224
0250	0351 B	33763	264 B	2687	14672	0424	00478	1204
0300	0355	33868	190 B	2695	14684	0483	00645	1133
0400	0366	34025	129 B	2707	14707	0592	01035	1034
0500	0360	34125	100 B	2715	14722	0693	01499	0961
0600	0348 C	34217	079 B	2724	14735	0787	02025	0887

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700 0800 1000			068 B 065 B 065 B	2735		0874 0956 1109	02606 03241 04650	0837 0795 0717

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 2723 AIR T 03.8 VIS 96 CONS. NO 009 MONTH 3 MXSAMPC 04 WAVES 2 2747 WET B 02.2 STN LAT 50-02 N DAY 01 NO.DPTH 14 WND-DIR 270 WW-CODE 02 LON 145-27 W HR 20.0 W-COLOR 10 WND-SPD 10 CLD-TPE 6 W-TRNSP 19 BARO 1014. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
200	0000	048	В	32783	700 B	2596	14672
200	0010	0467		32780	725 B	2598	14668
200	0020	0468	В	32783	724 B	2598	14671
200	0030	0466	В	32778	720 B	2598	14671
200	0050	0465		32782	722 B	2598	14674
200	0075	0466		32783	722 B	2598	14679
200	0100	0466	8	32798	719 B	2599	14683
200	0125	0374		33570	476 B	2670	14659
200	0150	0363		33665	385 B	2678	14660
200	0175	0358	В	33719	326 B	2683	14662
200	0200	0368		33773	288 8	2687	14671
200	0250	0358		33850	208	2694	14676
200	0300	0356		33916	155	2699	14685
200	0400	0358		34075	107 B	2711	14704

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010	0480 0467	В	32 7 83 32 7 80	700 B 725 B	2596 2598	14672 14668	0000 0021	00000	2050 2039
0020	0468	B	32783 32778	724 B	2598 2598	14671	0041	00004	2039
0030	0466	D	32782	720 B	2598	14674	0103	00003	2039
0075	0466		32783	722 B	2598	14679	0154	00059	2042
0100	0466	В	32 7 98 335 7 0	719 B 476 B	2599 26 7 0	14683	0205 0248	00105 00154	2032 1362
0150	0363		33665	385 B	2678	14660	0281	00200	1282
0175	0 3 3 0	В	33719	326 B	2683	14662	0313	00253	1239
0200	0368		33 77 3 33815	288 B	268 7 2690	14671	0344	00313 003 7 8	1210
0250	0358		33850	208	2694	14676	0403	00450	1146
0300	0356		33916	155	2699	14685	0460	00609	1098
0400	0358		34075	107 B	2711	14704	0565	00985	0989

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 2723 AIR T 05.5 VIS 97 CONS. NO 010 MONTH 3 MXSAMPD 20 WAVES 2 2735 WET B 04.9 STN LAT 50-02 N DAY 05 NO.DPTH 21 WND-DIR 270 WW-CODE 02 LON 144-57 W HR 20.04 W-COLOR 10 WND-SPD 11 CLD-TPE 6 W-TRNSP 18 BARD 1030. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
200	0000	050 B	32783	706 B	2594	14681
200	0010	0475 0476 B	32785 32780	725 B 724 B	259 7 259 7	14672
200	0030	0475 >B 0472	32784 32787	722 B 712 B	259 7 2598	14675 14677
200	00 7 5	0466 B 0468 B	32791 32794	720 B 723 B	2599 2599	14679 14684
200	0125 0150	0389 1	33456 33605	537 B 445 B	2659 2673	14664 14660
200	0175	0353 B 0348 B	33674 33754	378 B 275 B	2680 268 7	14660 14663
200	0250	0355 0357	33858 33930	191 B 160 B	2695 2700	14675 14685
200	0400	0364	34062	122 B	2710	14707
207	0498 0597	0358 0348 B	34144	096 B 083 B	2717 2725	14721
207	0795 0993	0311 B 0282 B	34324 34398	076 B 068 B	2736 2744	14753 14775
207 207	1194 1495	0255 0225	34461 34518	066 B 092 B	2 7 52 2 7 59	14797 14836
207	1996	0193	34593	146 B	2767	14908

DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B 0475	32783 32785	706 B 725 B	259 4 259 7	14681 14672	0000 0021	00000	2071
0020	0476 B	32780	724 B	2597	14674	0041	00004	2050
0030	0475 B 0472	32784 32787	722 B	259 7 2598	14675 14677	0062 0103	00010 00026	2046
0075	0466 B	32791	720 B	2599	14679	0154	00059	2036
0100 0125	0468 B 0389	32794 33456	723 B 537 B	2599 2659	14684	0206 0250	00105 00155	2038
0150	0366 0353 B	33605 33674	445 B 378 B	2673	14660	0285	00205	1330
0200	0348 B	33754	275 B	2680 268 7	14660 14663	0318 0349	00259 00319	1268 1205
0225	0350 B 0355	33813 33858	220 B 191 B	2691 2695	14669	0379 0408	00384	1165
0300	0357	33930	160 B	2700	14685	0464	00433	1089
0400	0364	34062	122 8	2710	14707	0569	00991	1004

DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0358	34146	096 B	2717	14722	0668	01444	0943
0600	0347 B	34231	083 B	2725	14735	0760	01962	0876
0700	0330 B	34286	078 B	2731	14745	0846	02535	0824
0800	0310 B	34326	076 B	2736	14754	0927	03159	0780
1000	0281 B	34400	068 B	2745	14775	1077	04545	0706
1200	0254	34462	066 B	2752	14798	1214	06086	0643
1500	0224	3453 B	086 B	- 2760	14836	1399	08651	0576
2000	0193	34593	147 B	2767	14909	1676	13604	0513

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 1821 AIR T 04.4 VIS 96 CONS. NO 011 MONTH 3 MXSAMPD 42 WAVES 2 2722 WET B 04.4 STN LAT 50-03 N DAY 06 NO.DPTH 26 WND-DIR 180 WW-CODE 40 LON 145-00 W HR 18.6 W-COLOR 10 WND-SPD 05 CLD-TPE MARSD SQ 195 W-TRNSP 23 BARD 1030. CLD-AMT HW

OBSERVED

				N1			
GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
186	0000	049	В	32674	716 B	2587	14675
186	0010	0470		32789	731 B	2598	14670
186	0020	0471	В	32788	731 B	2598	14672
186	0030	0468	В	32787	738 B	2598	14672
186	0050	0467		32788	742 B	2598	14675
186	0075	0467		32786	742 B	2598	14679
186	0100	0462	В	32854	714 B	2604	14682
186	0125	0377		33539	508 B	2667	14660
186	0150	0370		33622	440 B	2674	14662
186	0175	0355	В	33683	378 B	2681	14661
186	0200	0352		33741	295 B	2686	14664
186	0250	0355	В	33850	205 B	2694	14675
186	0300	0358		33932	160 B	2700	14686
186	0400	0365		34062	127 B	2710	14707
186	0500	0355		34154	096 B	2718	14721
186	0600	0348	В	34240	079 B	2726	14735
196	0800	0312	В	34328	067 B	2736	14754
196	1000	0283		34398	069 B	2744	14776
196	1200	0260	В	34448	075 B	2750	14800
196	1500	0229		34515	079 B	2758	14838
196	2000	0194	C	34589	138 B	2767	14909
196	2500	0172	В	34629	225	2772	14985
196	3000	0160	B	34651	272	2774	15067
196	3500	0153		34672	304	2777	15151
196	4000	0154			317		
196	4200	0153		34680	327	2777	15275

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0490 B	32674	716 B	2587	14675	0000	00000	2142
0010	0470	32789	731 B	2598	14670	0021	00001	2036
0020	0471 B	32788	731 B	2598	14672	0042	00004	2038
0030	0468 B	32787	738 B	2598	14672	0062	00009	2037
0050	0467	32788	742 B	2598	14675	0103	00026	2037
0075	0467	32786	742 B	2598	14679	0154	00059	2040
0100	0462 B	32854	714 B	2604	14682	0205	00105	1986
0125	0377	33539	508 B	2667	14660	0248	00153	1389
0150	0370	33622	440 B	2674	14662	0282	00201	1321
0175	0355 B	33683	378 B	2681	14661	0314	00255	1263

DEPTH	TEM	P	SAL	OXYGEN	.SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0352		33741	295 B	2686	14664	0346	00315	1218
0225	0353		33798	241 B	2690	14669	0376	00381	1178
0250	0355	В	33850	205 B	2694	14675	0405	00452	1143
0300	0358		33932	160 B	2700	14686	0461	00611	1088
0400	0365		34062	127 B	2710	14707	0567	00989	1005
0500	0355		34154	096 B	2718	14721	0665	01440	0934
0600	0348	В	34240	079 B	- 2726	14735	0756	01953	0870
0700	0331	В	3429 B	070 B	2731	14746	0841	02523	0821
0800	0312	В	34328	067 B	2736	14754	0922	03147	0781
1000	0283		34398	069 B	2744	14776	1073	04537	0710
1200	0260	8	34448	C75 B	2750	14800	1212	06104	0660
1500	0229		34515	079 B	2758	14838	1402	08734	0591
2000	0194	C	34589	138 B	2767	14909	1684	13768	0517
2500	0172	В	34629	225	2772	14986	1938	19637	0479
3000	0160	В	34651	272	2774	15067	2178	26458	0463
3500	0153		34672	304	2777	15152	2412	34324	0452
4000	0154		34679	317	2777	15240	2646	43449	0463

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 2121 AIR T 01.6 VIS 94 CONS. NO 012 MONTH 3 MXSAMPD 20 WAVES 2 3034 WET B 01.6 STN. LAT 49-56 N DAY 12 NO.DPTH 21 WND-DIR 210 WW-CODE 73 LON 144-54 W HR 19.8 W-COLOR 10 WND-SPD 06 CLD-TPE X MARSD SQ 159 W-TRNSP 19 BARD 1006. CLD-AMT 9 HW

OBSERVED

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
198	0000	046	В	32795	716	2600	14664
198	0010	0480		32800	717	2598	14674
198	0020	0479	В	32798	718 B	2598	14675
198	0030	0478	В	32799	714	2598	14677
198	0050	0474		32795	710	2598	14678
198	0075	0471		32796	713	2598	14681
198	0100	0472	В	32799	714	2599	14686
198	0125	0450		33139	618	2628	14685
198	0150	0382		33574	475	2669	14666
198	0174	0372	В	33678	384 B	2679	14668
198	0199	0372	_	33734	316	2683	14672
198	0249	0361		33840	229	2693	14677
198	0299	0359		33880	192	2696	14685
198	0399	0370		34046	133	2708	14709
205	0492	0362	-	34130	101	2715	14722
205	0591	0343	В	34206	084	2723	14731
205	0789	0318	8	34315	073	2734	14755
205	0988	0286	B	34394	065	2744	14775
205	1187	0260		34451	062	2750	14798
205	1486	0230		34512	093	2758	14836
205	1986	0194		34607	133	2768	14907

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0460 B	32795	716	2600	14664	0000	00000	2020
0010	0480 0479 B	32800 32 7 98	717 718 B	2598 2598	14674	0020 0041	00001	2038
0030	0478 B	32799	714	2598	14677	0061	00009	2038
0050 0075	0474 0471	32 7 95 32 7 96	710 713	2598 2598	14678 14681	0103 0154	00026 00059	2039
0100	0472 B	32799	714	2599	14686	0205	00105	2038
0125 0150	0450 0382	33139 33574	618 4 7 5	2628 2669	14685 14666	0253 0292	00160 00215	1762
0175	0372 8	33681	381 B	2679	14668	0326	00271	1281
0200 0225	0372 0367	33 7 36 33 7 94	314 264	2683 2688	14672 14675	0358 0388	00332 00399	1241
0250 0300	0361	33841	228	2693	14677	0418	00471	1155
0400	0359 0370	33882 34047	191 133	2696 2 7 08	14686 14709	0475 0584	00633 01020	1127

DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0361		34137	099	2716	14723	0684	01480	0953
0600	0342	В	.34212	083	2724	14732	0776	02003	0884
0700	0329	B	34271	076	2730	14744	0863	02581	0833
0800	0316	В	34320	072	2735	14756	0945	03214	0791
1000	0284	В	34398	064	2744	14777	1097	04614	0712
1200	0259		34454	063	2751	14800	1236	06175	0654
1500	0228		3452 B	084 B	- 2759	14838	1424	08781	0586
2000	0193		34609	135	2769	14909	1700	13713	0502

C-REF-NO 001	YR 1964	DEPTH C	4206	WAVES 1 2121	AIR T 05.5	VIS 91	
CONS. NO 013	MONTH 3	MXSAMPD	04	WAVES 2 2724	WET B 05.5	STN	
LAT 50-02 N	DAY 13	NO.DPTH	-00 '	WND-DIR · 210			
LON 145-03 W	HR 19.0	W-COLOR	10	WND-SPD 05	CLD-TPE X		
MARSD SQ 195		W-TRNSP	20	BARO 999.	CLD-AMT 9	HW	

				**			
GMT	DEPTH	T E M	Р	SAL	OXYGEN	SGMT	SOUND
190	0000	050	8	32785	714 B	2594	14681
190	0010	0468	В	32782	715	2598	14669
190	0020	0470	В	32788	717 B	2598	14671
190	0030	0468	В	32782	716	2598	14672
190	0050	0469		32785	711 B	2598	14676
190	0075	0469		32782	712	2598	14680
190	0100	0471	В	32786	712 B	2598	14685
190	0125	0427		33190	603	2634	14676
190	0150	0381		33559	478 B	2668	14666
190	0175	0374	В	33646	416	2676	14668
190	0200	0367	В	33724	328 B	2683	14670
190	0250	0358	8	33779	268 B	2688	14675
190	0300	0357		33866	196 B	2695	14684
190	0400	0365		34013	141 B	2706	14706
170	0400	0 10 1		フィロエコ	TILL	2. 100	2 1100

DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	32785	714 B	2594	14681	0000	00000	2069
0010	0468 B	32782	715	2598	14669	0021	00001	2039
0020	0470 B	32788	717 B	2598	14671	0041	00004	2037
0030	0468 B	32782	716	2598	14672	0062	00009	2041
0050	0469	32785	711 B	2598	14676	0103	00026	2041
0075	0469	32782	712	2598	14680	0154	00059	2045
0100	0471 B	32786	712 B	2598	14685	0206	00106	2047
0125	0427	33190	603	2634	14676	0253	00159	1700
01.50	0381	33559	478 B	2668	14666	0292	00214	1379
0175	0374 B	33646	416	2676	14668	0326	00270	1309
0200	0367 B	33724	328 B	2683	14670	0358	00332	1246
0225	0362 в	3376 B	289 C	2686	14673	0389	00400	1217
0250	0358 B	33779	268 B	2688	14675	0419	00474	1199
0300	0357	33866	196 B	2695	14684	0478	00640	1137
0400	0365	34013	141 B	2706	14706	0588	01033	1042

C-REF-ND 001 YR 1964 DEPTH C 4206 WAVES 1 26XX AIR T 06.1 VIS 98 CONS. NO 014 MONTH 3 MXSAMPD 04 WAVES 2 26XX WET B 04.9 STN LAT 50-01 N DAY 17 NO.DPTH 14 WNU-DIR 240 WW-CODE 02 LON 145-08 W HR 00.7 W-COLOR 10 WND-SPD 09 CLD-TPE 6 W-TRNSP 17 BARO 1019. CLD-AMT 4 HW

OBSERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
007	0000	052	8	32796	694 B	2593	14689
007	0010	0483	Ð	32796	710 B	2597	14675
007	0019	0480	8	32796	716 B	2597	14676
007	0029	0479		32796	710 B	2598	14677
007	0048	0476	В	32796	713 B	2598	14679
007	0073	0476	В	32793	708 B	2598	14683
007	0097	0476	В	32796	703 B	2598	14687
007	0121	0476	C	328C2	706 B	2598	14691
007	0145	0378	В	33538	493 B	2667	14663
007	0169	0370		33666	381 B	2678	14666
007	0193	0366	В	33730	318 B	2683	14669
007	0241	0356		33801	241 B	2690	14673
007	0290	0354		33883	181 B	2697	14682
007	0386	0356		34016	126 B	2707	14700

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520 B	32796	694 b	2593	14689	0000	00000	2082
0010	0483 8	32796	710 B	2597	14675	0021	00001	2044
0020	0480 B	32796	716 B	2597	14676	0041	00004	2042
0030	0479	32796	710 B	2598	14677	0062	00009	2041
0050	0476 B	32796	713 B	2598	14679	0103	00026	2040
0075	0476 8	32793	707 B	2598	14683	0154	00059	2044
0100	0479 8	3278 E	709 B	2596	14688	0206	00106	2062
0125	0460 C	3292 I	674 C	2609	14686	0256	00164	1936
0150	0372 B	3359 E	463 8	2672	14663	0298	00221	1346
0175	0369	33686	362 B	2680	14666	0331	00276	1274
0200	0364 8	33742	304 B	2584	14669	0362	00337	1229
0225	0359	33781	262 B	2688	14672	0393	00403	1197
0250	0355	33816	228 B	2691	14675	0423	00476	1169
0300	0352	33893	172 B	2698	14683	0480	00638	1111

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 24X1 AIR T 06.1 VIS 97 CONS. NO 015 MONTH 3 MXSAMPD 30 WAVES 2 2723 WET B 04.9 STN LAT 50-01 N DAY 17 NO.DPTH 23 WND-DIR 240 WW-CUDE 01 LON 144-58 W HR 20.6 W-COLOR 10 WND-SPD 05 CLD-TPE 1 W-TRNSP 26 BARD 1030. CLD-AMT 3 HW

OBSERVED

CHT	DEDTH	тсив	 C A I	DVVCEN	COMT	COLIND
GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
206	0000	050 B	32791	724 B	2595	14681
206	0010	0476	32791	710	2597	14672
206	0020	0470 B	32790	711 B	2598	14671
206	0030	0471	32797	705 B	2599	14674
206	0050	0470 B	32798	705 B	2599	14677
206	0065	0472	32796	705 B	2598	14680
206	0090	0472 B	32796	715 B	2598	14684
206	0115	0470 B	32808	631 B	2599	14687
206	0140	0387 B	33527	486 B	2665	14666
206	0165	0377 B	33612	420	2673	14667
206	0190	0370 B	33698	360 B	2680	14670
206	0240	0357	33797	250	2689	14674
206	0300	0359	33913	169	2699	14686
206	0400	0363	34040	127	2708	14706
206	0500	0356	34147	098 B	2717	14721
206	0600	0340	34233	083 B	2726	14732
218	0800	0316	34326	062 B	2735	14756
218	1000	0284	34397	071	2744	14777
218	1200	0259	34449	069 B	2750	14800
218	1500	0230	34518	080 B	2758	14839
218	2000	0193	34589	144 B	2767	14909
218	2500	0173	34632	214 B	2772	14986
218	3000	0157	34658	270	2775	15066

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	32791	724 B	2595	14681	0000	00000	2065
0010	0476	32791	710	2597	14672	0021	00001	2040
0020	0470 B	32790	711 B	2598	14671	0041	00004	2036
0030	0471	32797	765 B	2599	14674	0062	00009	2032
0050	0470 B	32798	705 B	2599	14677	0103	00026	2032
0075	0472	32795	714 B	2598	14682	0154	00059	2039
0100	0476 B	3276 I	691 B	2595	14687	0206	00106	2073
0125	0437 C	3309 I	572 B	2625	14679	0254	00161	1785
0150	0378 B	3360 I	455 B	2672	14665	0294	00216	1347
0175	0374 B	33648	395	2676	14668	0327	00272	1308
0200	0367 8	33722	336 8	2683	14670	0359	00334	1247
0225	0360	33773	280	2687	14672	0390	00401	1204
0250	0357	33817	233	2691	14675	0420	00474	1169

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0300	0359	33913 34040	169 127	2699 2708	14686	0477 0584	00636	1103
0500	0356	34147	098 B	2717	14721	0683	01474	0940
0600 07 00	0340 0328	34233 34287	083 B 070 B	2726 2731	14732	0 77 5 0860	01988 025 57	0867 0821
0800 1000	0316	34326 34397	062 B	2735	14756	0941	03183	0786 0712
1200	0259	34449	069 B	2750	14800	1232	06146	0658
1500 2000	0230 0193	•34518 34589	080 B 144 B	2758 2767	14839 14909	1422 1702	08771 13794	0590 0516
2500 3000	0173 0157	34632 34658	214 B 270	2772 2775	14986 15066	1956 2193	19650 26393	0478 0454

C-REF-NO 001	YR 1964	DEPTH C	4206	WAVES 1 2621	AIR T 03.8	VIS 97
				WAVES 2 3123		STN
LAT 49-59 N	DAY 20	NO.DPTH	14	WND-DIR 260	WW-CODE 60	
LON 145-00 W	HR 19.8	W-COLOR	10	WND-SPD 05	CLD-TPE 7	
MARSD SQ 159		W-TRNSP	20	BARO 1031.	CLD-AMT 8	HW

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
198	0000	049 B	32810	717 B	2597	14677
198	0010	0482 B	32802	733 B	2598	14675
198	0020	0481 B	32802	731 B	2598	14676
198	0030	0482	32803	732 B	2598	14678
198	0050	0481 B	32802	727 B	2598	14681
198	0075	0482	32801	731 B	2598	14686
198	0100	0483 B	32802	726 B	2598	14690
198	0125	0432 B	33345	583 B	2646	14680
198	0150	0376 B	33595	463 B	2672	14664
198	0175	0371 B	33664	406 B	2678	14667
198	0200	0362 B	33733	322 B	2684	14668
198	0250	0361	33822	239 B	2691	14677
198	0300	0363	33896	197 B	2697	14687
198	0400	0365	34037	133 B	2708	14707

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0490 B	32810	717 B	259 7	14677	0000	00000	2040
0010	0482 B	32802	733 B	2598	14675	0021	00001	2038
0020	0481 B	32802	731 B	2598	14676	0041	00004	2038
0030	0482	32803	732 B	2598	14678	0062	00009	2039
0050	0481 8	32802	727 B	2598	14681	0103	00026	2041
0075	0482	32801	731 B	2598	14686	0154	00059	2045
0100	0483 B	32802	726 8	2598	14690	0206	00106	2047
0125	0432 8	33345	583 B	2646	14680	0251	00158	1589
0150	0376 B	33595	463 B	2672	14664	0288	00210	1347
0175	0371 8	33664	4C6 B	2678	14667	0322	00265	1293
0200	0362 B	33733	322 B	2684	14668	0353	00326	1234
0225	0360 B	33783	271 B	2688	14672	0384	00393	1197
0250	0361	33822	239 B	2691	14677	0414	00466	1170
0300	0363	33896	197 B	2697	14687	0472	00628	1120
0400	0365	34037	133 B	2708	14707	0580	01015	1024

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 1921 AIR T 04.4 VIS 92 CONS. NO 017 MONTH 3 MXSAMPD C4 WAVES 2 2723 WET B 04.4 STN. LAT 50-03 N DAY 23 NO.DPTH 14 WND-DIR 190 WW-CODE 41 LON 144-55 W HR 19.5 W-COLOR 10 WND-SPD 08 CLD-TPE X W-TRNSP 21 BARO 1017. CLD-AMT 9 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
195	0000	051 B	32799	739	2594	14685
195	0010	0485 B	32800	730	2597	14676
195	0020	0482 B	32800	722	2598	14677
195	0030	0477	32801	724	2598	14676
195	0050	0474 B	32799	716	2598	14678
195	0075	0476	32802	Q742 B	2598	14683
195	0100	0476 B	32800	716	2598	14687
195	0125	0422 C	33302	575	2644	14676
195	0150	0378 B	33578	464	2670	14665
195	0175	0370	33672	392	2678	14667
195	0200	0366 B	33735	322	2684	14670
195	0250	0353	33824	222 B	2692	14674
195	0300	0358	33926	172 B	2700	14686
195	0400	0358	34032	126 B	2708	14704

DEPTH T	T E M	Р	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0510	В	32799	739	2594	14685	0000	00000	2069
0010	0485	В	32800	730	2597	14676	0021	00001	2043
0020	0482	8	32800	722	2598	14677	0041	00004	2041
0030	0477		32801	724	2598	14676	0062	00009	2036
0050	0474	В	32799	716	2598	14678	0103	00026	2036
0075	0476		32802	742 B	2598	14683	0154	00059	2038
0100	0476	В	32800	716	2598	14687	0205	00105	2041
0125	0422	C	33302	575	2644	14675	0251	00158	1611
0150	0378	В	33578	464	2670	14665	0289	00210	1362
0175	0370		33672	392	2678	14667	0322	00266	1286
0200	0366	В	33735	322	2684	14670	0354	00327	1236
0225	0359	8	33782	266	2688	14672	0385	00394	1196
0250	0353		33824	222 B	2692	14674	0414	00466	1161
0300	0358		33926	172 B	2700	14686	0471	00626	1093
0400	0358		34032	126 B	2708	14704	0578	01008	1021

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 XX AIR T 04.9 VIS 97 CONS. NO 018 MONTH 3 MXSAMPD 42 WAVES 2 2723 WET B 03.8 STN LAT 49-57 N DAY 25 NO.DPTH 26 WND-DIR 990 WW-CODE 02 LON 144-59 W HR 18.9. W-COLOR 10 WND-SPD 01 CLD-TPE 6 MARSD SQ 159 W-TRNSP 23 BARO 1025. CLD-AMT 8 HW

OBSERVED

			0+			
GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
189	0000	050 B	3 2 8 C 2	705 B	2596	14681
189	0010	0484 B	32797	708 B	2597	14676
189	0020	0480 B	32808	710 B	2598	14676
189	0030	0480	32794	711 B	2597	14677
189	0050	0470 B	32809	708 B	2600	14677
189	0075	0466	32803	707 B	2600	14679
189	0100	0464 B	32804	701 B	2600	14682
189	0125	0425.B	33116	606 B	2629	14674
189	0150	0369 B	33618	441 B	2674	14661
189	0175	0364	33682	372 B	2680	14664
189	0200	0359 B	33749	296 B	2685	14667
189	0250	0365	33836	226 B	2692	14679
189	0300	0362	33903	188 B	2697	14687
189	0400	0357	34034	112 B	2708	14703
189	0500	0360	34147	101 B	2717	14723
189	0600	0347	34228	082 B	2725	14735
200	0800	0315	34332	059 B	2736	14756
‡242	0994	0283	34407	060 B	2745	14775
‡242	1194	0255	34474	062 B	2753	14798
‡242	1493	0234 B	34519	074 B	2758	14839
‡242	1993	0196	34594	129	2767	14909
‡242	2491	0174	34634	200	2772	14985
‡242	2990	0158	34673	262 B	2776	15065
‡ 242	3490	0154 B	34681	292	2777	15150
‡ 242	3990	0155	34684	319	2777	15239
‡ 242	4190	0154	34691	319	2778	15274

*MULTIPLE CAST CONTINUED NEXT DAY

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	32802	705 B	2596	14681	0000	00000	2056
0010	0484 B 0480 B	32797 32808	708 B 710 B	259 7 2598	14676 14676	0021 0041	00001	2044
0030	0480 0470 B	32 7 94 32809	711 B 708 B	259 7 2600	14677 14677	0062	00009	2044
0075 0100	0466 0464 B	32803 32804	707 B	2600 2600	14679 14682	0154 0205	00059	2027
0125 0150	0425 8 0369 8	33116 33618	606 B 441 B	2629 2674	14674 14661	0252 0291	00159 00213	1754 1323

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0175	0364	33682	372 B	2680	14664	0324	00268	1272
0200	0359	3 33749	296 B	2685	14667	0355	00328	1219
0225	0361 8	3 33798	252 B	2689	14673	0385	00394	1186
0250	0365	33836	226 B	2692	14679	0415	00466	1163
0300	0362	33903	188 B	2697	14687	0472	00628	1114
0400	0357	34034	112 B	2708	14703	0580	01013	1018
0500	0360	34147	101 8 -	- 2717	14723	0679	01469	0944
0600	0347	34228	082 B	2725	14735	0771	01988	0878
0700	0332	34287	068 B	2731	14745	0857	02562	0825
0800	0315	34332	059 B	2736	14756	0938	03187	0781
1000	0282	34409	060 B	2745	14776	1088	04568	0701
1200	0254	34475	062 B	2753	14798	1224	06092	0633
1500	0233 E	3 34520	075 B	2758	14840	1410	08676	0592
2000	0196	34595	130	2767	14910	1691	13703	0515
2500	0174	34635	201	2772	14986	1944	19546	0477
3000	0158	34673	263 B	2776	15067	2179	26204	0444
3500	0154 E	34681	293	2777	15152	2407	33874	0447
4000	0154	34686	316	2778	15240	2639	42897	0458

C-REF-NO 001 YR 1964 DEPTH C 4206 WAVES 1 1221 AIR T 06.1 VIS 92 CONS. NO 019 MONTH 3 MXSAMPD 04 WAVES 2 2733 WET B 06.1 STN LAT 50-00 N DAY 27 NO.DPTH 14 WND-DIR 120 WW-CODE 47 LON 145-06 W HR 19.4 W-COLOR 10 WND-SPD 07 CLD-TPE X WARSD SQ 195 W-TRNSP 18 BARO 1007. CLD-AMT 9 HW

DBSERVED

			may.			
GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
194	0000	052 8	32763	709 B	2590	14689
194	0010	0502 B	32769	716 B	2593	14683
194	0020	0486 8	32794	719 B	2597	14678
194	0030	0481	32801	717 B	2598	14678
194	0050	0468 B	32796	712 B	2599	14676
194	0075	0468	32799	707 B	2599	14680
194	0100	0467 B	32797	708 B	2599	14683
194	0125	0420 C	33079	604 B	2626	14672
194	0150	0356 B	33569	436 B	2671	14655
194	0175	0354 B	33658	371 B	2679	14660
194	0200	0354 8	33718	309 B	2683	14665
194	0250	0346	33817	204 B	2692	14671
194	0300	0355	33906	162 B	2698	14684
194	0400	0363	34039	125 B	2708	14706
					-	

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520	В	32763	709 B	2590	14689	0000	00000	2107
0010	0502	В	32769	716 B	2593	14683	0021	00001	2084
0020	0486	В	32794	719 B	2597	14678	0042	00004	2049
0030	0481		32801	717 B	2598	14678	0062	00010	2040
0050	0468	В	32796	712 B	2599	14676	0103	00026	2032
0075	0468		32799	707 B	2599	14680	0155	00059	2032
0100	0467	В	32797	708 B	2599	14683	0206	00105	2034
0125	0420	C	33079	604 B	2626	14672	0254	00160	1777
0150	0356	В	33569	436 B	2671	14655	0293	00215	1348
0175	0354	В	33658	371 B	2679	14660	0326	00270	1281
0200	0354	В	33718	309 B	2683	14665	0358	00331	1237
0225	0350	В	33770	251 B	2688	14668	0389	00398	1196
0250	0346		33817	204 B	2692	14671	0418	00470	1159
0300	0355		33906	162 B	2698	14684	0475	00631	1105
0400	0363		34039	125 B	2708	14706	0583	01015	1021

C-REF-NO 001	YR 1964	DEPTH C 4206	WAVES 1 2424	AIR T 03.8	VIS 97
CONS. NO 020	MONTH 3	MXSAMPD 04	WAVES 2 2722	WET B 02-7	STN
LAT 50-01 N	DAY 30	NO.DPTH 14	WND-DIR: 240	WW-CODE 18	
LON 144-59 W	HR 18.9	W-COLOR 10	WND-SPD 13	CLD-TPE 8	
MARSD SQ 195		W-TRNSP : 18	BARO 1003.	CLD-AMT 6	HW

				61			
GMT	DEPTH	TEM	P	SAL	DXYGEN	SGMT	SOUND
189	0000	049	В	32788	735	2596	14677
						2290	14677
189	0010	0491	C	32785	758 B	2595	14679
189	0020	0488	В	32785	739	2596	14679
189	0030	0490		32786	753	2596	14681
189	0050	0488	В	32783	722 B	2596	14684
189	0075	0470		32791	733	2598	14681
189	0100 ~~	0465	В	32794	720	2599	14683
189	0125	0391	C	33482	516	2661	14665
189	0150	0380	В	33582	470	2670	14666
189	0175	0366	В	33653	399	2677	14665
189	0200	0374	В	33733	328	2683	14673
189	0250	0367		33822	238	2691	14680
189	0300	0361		33884	203 B	2696	14686
189	0400	0358		34017	125	2707	14703

DEPTH	TEME	PSAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0490 8	32788	735	2596	14677	0000	00000	2056
0010	0491 (32785	758 B	2595	14679	0021	00001	2061
0020	0488 E	32785	739	2596	14679	0041	00004	2058
0030	0490	32786	753	2596	14681	0062	00010	2061
0050	0488 E	3 32783	722 B	2596	14684	0104	00027	2062
0075	0470	32791	733	2598	14681	0155	00060	2040
0100	0465	3 32794	720	2599	14683	0207	00106	2034
0125	0391 (33482	516	2661	14665	0250	00155	1445
0150	0380	3 33582	470	2670	14666	0286	00205	1361
0175	0366	3 33653	399	2677	14665	0319	00261	1296
0200	0374 E	3 33733	328	2683	14673	0351	00322	1246
0225	0372	3 33785	275	2687	14677	0382	00390	1207
0250	0367	33822	238	2691	14680	0412	00463	1176
0300	0361	33884	203 B	2696	14686	0470	00627	1127
0400	0358	34017	125	2707	14703	0579	01016	1032

C-REF-NO 001	YR 1964	DEPTH C	4206	WAVES 1 XX	AIR T 05.5	VIS 97
CONS. NO 021	MONTH 4	MXSAMPE	41	WAVES 2 3247	WET B 04.9	STN
LAT 49-57 N	DAY 04	NO.DPTH	26	WND-DIR 990	WW-CODE 02	
LON 145-02 W	HR 18.9	W-COLOR	10	WND-SPD 01	CLD-TPE 2	
MARSD SQ 159		W-TRNSP	19	BARO 1036.	CLD-AMT 4	HW

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
189	0000	050	В	32792	728 B	2595	14681
189	0010	0485	В	32791	725 B	2597	14676
189	0019	0480	В	32788	732 B	2597	14675
189	0029	0481		32788	728 B	2597	14678
189	0049	0480	В	32791	723 B	2597	14680
189	0074	0482		32787	732 B	2597	14685
189	0099	0483	В	32789	726 B	259 7	14690
189	0124	0419	C	33231	589 B	2638	14673
189	0149	0372	В	33585	463 B	2671	14662
189	0174	0362		33677	377 B	2679	14663
189	0198	0355	В	33730	311 B	2684	14665
189	0248	0352		33832	Q215 B	2693	14673
189	0298	0368		33921	198 B	2698	14690
189	0397	0366		34034	141 B	2707	14707
189	0495	0358		34119	108 B	2715	14720
189	0593	0344		34211	083 B	2724	14732
200	0780	0322		34311	066 B	2734	14755
200	0976	0291		34392	Q069 B	2743	14776
200	1171	0261		34454	059	2751	14796
200	1465	0231		34518	076 B	2758	14833
200	1955	0194		34592	140 B	2767	14901
200	2444	0174		34634	208	2772	14977
200	2935	0159		34665	268	2776	15055
200	3431	0154	B	34682	304 B	2777	15140
200	3924	0154		34692	331	2778	15227
200	4084	0154					

DEPTH	TEMP	SAL	CXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	32792	728 B	2595	14681	0000	00000	2064
0010	0485 B	32791	725 8	2597	14676	0021	00001	2050
0020	0480 B	32788	732 B	2597	14676	0041	00004	2048
0030	0481	32788	728 B	2597	14678	0062	00010	2049
0050	0480 B	32791	7 23 8	2597	14681	0103	00026	2048
0075	0483	32783	733 B	2596	14686	0155	00060	2059
0100	0481 B	32803	722 B	2598	14689	0207	00106	2044
0125	0417 C	33249	583 B	2640	14673	0253	00159	1646
0150	0371 B	33592	459 B	2672	14662	0291	00212	1345
0175	0362	33680	374 B	2680	14663	0324	00267	1272

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0355	В	33734	306 B	2685	14665	0355	00327	1226
0225	0351		33787	251 B	2689	14669	0386	00393	1185
0250	0353		33836	214 B	2693	14674	0415	00465	1151
0300	0368		33924	197 B	2698	14690	0472	00625	1104
0400	0366		34037	140 B	2708	14707	0579	01010	1025
0500	0357		34124	106 B	2715	14721	0679	01471	0959
0600	0343		34216	082 B	- 2724	14733	0773	01995	0883
0700	0331		34276	070 B	2730	14745	0859	02574	0833
0800	0319		34320	066 B	2735	14757	0942	03208	0794
1000	0287		34401	068 B	2744	14778	1094	04611	0713
1200	0258		34461	059	2751	14800	1232	06165	0647
1500	0228		34524	080 B	2759	14838	1419	08752	0583
2000	0192		34597	146 B	2768	14908	1696	13708	0509
2500	0172		34638	216	2773	14986	1946	19488	0472
3000	0158		34668	274	2776	15066	2181	26147	0448
3500	0154	В	34685	311	2778	15152	2409	33820	0444
4000	0154								

C-REF-NO 001	YR 1964	DEPTH C	4206	WAVES 1 1723	AIR T 06.6	VIS 95
CONS. NO 022	MONTH 4	MXSAMPD	04	WAVES 2 1937	WET B 06.1	STN
LAT 50-08 N	DAY 05	NO.DPTH	14	WND-DIR. 170	WW-CODE 50	
LON 145-02 W	HR 19.9	W-COLOR	10	WND-SPD 13	CLD-TPE 7	
MARSD SQ 195		W-TRNSP	20	BARO 1019.	CLD-AMT 8	HW

DBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN SGMT	SOUND
199	0000	052 B	32781	2592	14689
199	0010	0484 B	32771	2595	14675
199	0020	0482 B	32775	2596	14676
199	0030	0483	32779	2596	14678
199	0050	0480 B	32776	2596	14680
199	0075	0481 B	32784	2596	14685
199	0100	0481 B	32792	2597	14689
199	0125	0377 B	33431	2658	14658
199	0150	0356 B	33580	2672	14655
199	0175	0355 B	33670	2680	14660
199	0200	0348 B	33738	2686	14662
199	0250	0351	33836	2693	14673
199	0300	0362	33914	2698	14687
199	0400	0358	34038	2709	14704

DEPTH	TEMP	SAL	DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0520 B	32781		2592	14689	0000	00000	2093
0010	0484 B	32771		2595	14675	0021	00001	2064
0020	0482 B	32775		2596	14676	0042	00004	2060
0030	0483	32779		2596	14678	0062	00010	2058
0050	0480 B	32776		2596	14680	0104	00027	2059
0075	0481 B	32784		2596	14685	0156	00060	2057
0100	0481 B	32792		2597	14689	0207	00106	2053
0125	0377 B	33431		2658	14658	0252	00157	1470
0150	0356 B	33580		2672	14655	0287	00206	1340
0175	0355 B	33670		2680	14660	0320	00261	1273
0200	0348 B	33738		2686	14662	0351	00321	1217
0225	0348 B	33791		2690	14667	0382	00387	1178
0250	0351	33836		2693	14673	0411	00459	1150
0300	0362	33914		2698	14687	0468	00619	1106
0400	0358	34038		2709	14704	0575	01002	1016

C-REF-NO 001 YR 1964 DEPTH C 3913 WAVES 1 2934 AIR T 06.1 VIS 97 CONS. NO 023 MONTH 4 MXSAMPD 15 WAVES 2 49X7 WET B 04.4 STN 010-LAT 49-49 N DAY 06 NO.DPTH 20 WND-DIR 290 WW-CODE 02 LON 142-40 W HR 15.44 W-COLOR WND-SPD 12 CLD-TPE 6 MARSD SQ 159 W-TRNSP BARO 1022. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
154	0000	053 B	32787		2591	14693
154	0010	0529 B	32783		2591	14694
154	0019	0528 B	32784		2591	14695
154	0029	0530	32784		2591	14698
154	0048	0526 B	32792		2592	14699
154	0071	0518	32789		2593	14700
154	0096	0518 B	32785		2592	14704
154	0120	0482 · B	33110		2622	14697
154	0145	0424 B	33526		2661	14683
154	0170	0412 B	33629		2671	14683
154	0195	0410 B	33699		2676	14687
154	0245	0389				
154	0294	0394	33878		2692	14699
154	0394	0381	34019		2705	14712
160	0483	0371	34110	1	2713	14724
160	0579	0357	34177		2720	14735
160	0772	0330 B	34290		2731	14757
160	0964	0297	34365		2740	14776
160	1158	0269	34433		2748	14797
160	1452	0239	34495		2756	14834

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0530 В	32 7 87	2591	14693	0000	00000	2100
0010	0529 B	32783	2591	14694	0021	00001,	2103
0020	0528 B	32784	2591	14695	0042	00004	2102
0030	0530	32784	2591	14698	0063	00010	2105
0050	0525 B	32792	2592	14699	0106	00027	2096
0075	0519	3278 C	2592	14701	0159	00061	2103
0100	0514 B	3283 B	2596	14703	0211	00108	2063
0125	0469 B	3320 0	2631	14694	0259	00163	1735
0150	0419 8	3356 C	2664	14682	0299	00218	1416
0175	0411 B	33645	2672	14684	0333	00276	1347
0200	0408 B	33710	2678	14687	0367	00340	1296
0225	0397 B	3376 B	2683	14688	0399	00410	1248
0250	0389	3381 B	2687	14689	0430	00485	1206
0300	0394	33888	2693	14700	0489	00654	1157
0400	0380	34026	2705	14713	0601	01051	1048
0500	0369	34123	2714	14726	0703	01520	0971

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0354	34191		2721	14737	. 0798	02057	0913
0700	0340	34252		2727	14749	0887	02655	0861
0800	0325 B	34302		2733	14760	0972	03307	0814
1000	0291	34379		2742	14780	1129	04749	0734
1200	0264	34442		2749	14802	1271	06351	0669

C-REF-NO 001 YR 1964 DEPTH C 3877 WAVES 1 27XX AIR T 06.1 VIS 98 CONS. NO 024 MONTH 4 MXSAMPC 15 WAVES 2 27XX WET B 04.7 STN 009 LAT 49-41 N DAY 06 NO.DPTH 20 WND-DIR 270 WW-CODE 02 LON 140-40 W HR 22.9 W-COLOR 10 WND-SPD 08 CLD-TPE 6 W-TRNSP 18 BARO 1024. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEMP	S A L OXYGE	N SGMT	SOUND
229	0000	057 B	32719	2581	14708
229	0010	0574 B	32720	2581	14712
229	0020	0572 8	32725	2581	14713
229	0030	0573	32724	2581	14715
229	0050	0572 B	32728	2582	14718
229	0075	0566 B	32721	2582	14719
229	0100	0536 B	32815	2593	14712
229	0125	0526 8	33361	2637	14719
229	0150	0492 B	33554	2656	14712
229	0175	0471 B	33618	2664	14708
229	0200	0458 B	33713	2672	14708
229	0250	0441 B	33799	2681	14711
229	0300	0433	33850	2686	14716
229	0400	0402	33980	2700	14722
233	0496	0385	34082	2709	14732
233	0596	0371	34167	2718	14743
233	0796	0339	34277	2729	14764
233	0996	0293	34380	2742	14780
233	1195	0266	34438	2749	14802
233	1492	0240	34497	2756	14842

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0570 B	32719		2581	14708	0000	00000	2195
0010	0574 B	32720		2581	14712	0022	00001	2200
0020	0572 8	32725		2581	14713	0044	00005	2195
0030	0573	32724		2581	14715	0066	00010	2198
0050	0572 B	32728		2582	14718	0111	00028	2196
0075	0566 B	32721		2582	14719	0166	00064	2197
0100	0536 B	32815		2593	14712	0220	00112	2095
0125	0526 B	33361		2637	14719	0267	00166	1678
0150	0492 8	33554		2656	14712	0307	00222	1498
0175	0471 8	33618		2664	14708	0344	00284	1430
0200	0458 B	33713		2672	14708	0379	00351	1347
0225	0448 B	3377 8	3	2678	14709	0413	00424	1299
0250	0441 B	33799		2681	14711	0445	00503	1269
0300	0433	33850		2686	14716	0508	00680	1227
0400	0402	33980		2700	14721	0626	01100	1105
0500	0384	34086		2710	14732	0733	01593	1016
0 0 0	A 11							

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0370	34170		2718	14744	0832	02152	0946
0700	0356	34230		2724	14755	0925	02772	0893
0800	0338	34279		2730	14765	1013	03448	0845
1000	0292	34381		2742	14780	1172	04915	0733
1200	0263	3445 B		2750	14802	1314	06511	0665
1500	0240	34498		2756	14843	1509	09210	0616

C-REF-NO 001 YR 1964 DEPTH C 3886 WAVES 1 272X AIR T 04.9 VIS 97 CONS. NO 025 MONTH 4 MXSAMPD 15 WAVES 2 272X WET B 03.8 STN 008 LAT 49-33 N DAY 07 NO.DPTH 20 WND-DIR 270 WW-CODE 02 LON 138-40 W HR 05.9 W-COLOR WND-SPD 09 CLD-TPE 6 W-TRNSP BARO 1024. CLD-AMT 7 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
			0 7 2	CATOLII	20111	300110
059	0000	060 B	32695		2576	14720
059	0010	0582 B	32696		2578	14715
059	0020	0582 B	32690		2577	14716
059	0030	0577	32695		2578	14716
059	0050	0570 B	32705		2580	14716
059	0075	0566	32717		2581	14719
059	0100	0552 B	32845		2593	14719
059	0125	0550	33457		2642	14731
059	0150	0555 B	33757		2665	14741
059	0175	0534 B	338C7		2671	14737
059	0200	0519 B	33855		2677	14736
059	0250	0454	33848		2684	14717
059	0300	0438	33898		2689	14719
059	0400	0411	34004		2701	14726
064	0497	0398	34098		2709	14737
064	0596	0375	34182		2718	14745
064	0796	0332	34292		2731	14762
064	0996	0296	34376		2741	14781
064	1196	0268	34440		2749	14803
064	1496	0237 B	34506		2757	14841

1 N T E R P O L A T E D

DEPTH	TEMP	S A L DXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0600 B	32695	2576	14720	0000	00000	2248
0010	0582 B	32696	2578	14715	0023	00001	2227
0020	0582 B	32690	2577	14716	0045	00005	2233
0030	0577	32695	2578	14716	0067	00010	2224
0050	0570 B	32705	2580	14716	0112	00029	2211
0075	0566	32717	2581	14719	0168	00064	2200
0100	0552 B	32845	2593	14719	0222	00113	2091
0125	0550	33457	2642	14731	0268	00166	1634
0150	0555 B	33757	2665	14741	0307	00220	1418
0175	0534 B	33807	2671	14737	0342	00278	1359
0200	0519 8	33855	2677	14736	0375	00343	1309
0225	0486 C	3386 C	2681	14726	0408	00414	1273
0250	0454	33848	2684	14717	0440	00491	1246
0300	0438	33898	2689	14719	0501	00665	1196
0400	0411	34004	2701	14726	0617	01078	1097
0500	0397	34101	2710	14738	0724	01570	1019

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600 0700 0800 1000 1200 1500	0374 0352 0331 0295 0267 0237 8	34185 34246 34294 34377 34442 34507		2719 2726 2731 2741 2749 2757	14746 - 14754 14762 14781 14803 14842	0823 0915 1001 1159 1302 1496	02127 02739 03402 04860 06472 09160	0939 0877 0826 0739 0672 0606

C-REF-NO 001 YR 1964 DEPTH C 3767 WAVES 1 27XX AIR T 04.9 VIS 97 CONS. NO 026 MONTH 4 MXSAMPD 35 WAVES 2 27XX WET B 03.8 STN 007 LAT 49-28 N DAY 07 NO.DPTH 24 WND-DIR 270 WW-CODE 02 LON 136-40 W HR 13.2 W-COLOR WND-SPD 01 CLD-TPE 6 W-TRNSP BARO 1025. CLD-AMT 6 HW

OBSERVED

GMT	DEPTH	TEM	Р	S A L OXYGEN	SGMT	SOUND
132	0000	063	B	32622	2566	14731
132	0010	0639	В	32639	2566	14737
132	0020	0636	В	32612	2565	14737
132	0030	0637		32609	2564	14739
132	0050	0625	8	32611	2566	14737
132	0075	0623		32612	2566	14741
132	0100	0602	В	32645	2571	14737
132	0125	0592		33081	2607	14743
132	0150	0586	В	33594	2648	14751
132	0175	0566		33743	2662	14749
132	0200	0549	В	33791	2668	14747
132	0250	0490		33870	2681	14732
132	0300	0456		33968	2688	14727
132	0400	0417		34002	2700	14728
140	0500	0397		34093	2709	14737
140	0600	0390		34181	2717	14752
140	0800	0336		34300	2732	14764
140	1000	0297		34390	2742	14782
140	1200	0268		34454	2750	14804
140	1500	0235		34512	2757	14841
140	1998	0192		34600	2768	14908
140	2494	0175	В	34644	2773	14986
140	2991	0164		34662	2775	15067
140	3489	0157		34675	2777	15151

DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000 0010 0020 0030 0050 0075 0100 0125 0150	0630 0639 0636 0637 0625 0623 0602 0592 0586	B B B B	32622 32639 32612 32609 32611 32612 32645 33081 33594 33743	UXTGEN	2566 2566 2565 2564 2566 2566 2571 2607 2648 2662	14731 14737 14737 14739 14737 14741 14737 14743 14751	0000 0024 0047 0071 0118 0177 0236 0269 0334 0372	00000 00001 00005 00011 00030 00068 00121 00182 00244 00307	2338 2337 2355 2360 2346 2346 2299 1964 1577
0175 0200 0225	931.	B B	33791 33834		2668 2675	14747 14740	0408 0442	00376 00451	1391 1328

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0250	0490	33870		2681	14732	0475	00531	1270
0300	0456	33908		2688	14727	0537	00707	1209
0400	0417	34002		2700	14728	0654	01124	1105
0500	0397	34093		2709	14737	0761	01619	1024
0600	0390	34181		2717	14752	0862	02183	0959
0700	0365 B	34247		2724	14759	0955	02806	0891
0800	0336	34300		2732	14764	1042	03475	0827
1000	0297	34390		2742	14782	1200	04926	0731
1200	0268	34454		2750	14804	1341	06520	0664
1500	0235	34512		2757	14841	1533	09179	0600
2000	0192	34600		2768	14908	1815	14192	0507
2500	0175 B	34644		2773	14987	2064	19955	0471
3000	0163	34666		2775	15069	2301	26683	0457
3500	0157	34675		2777	15153	2534	34538	0456

C-REF-NO 001	YR 1964	DEPTH C 3557	WAVES 1 49XX	AIR T 07.2	VIS 97
CONS. NO 027	MONTH 4	MXSAMPD 15	WAVES 2 2722	WET B 05.5	STN 006
LAT 49-15 N	DAY 07	NO.DPTH: 20	WND-DIR 990	WW-CODE 02	
LON 134-40 W	HR 20.8	W-COLOR	WND-SPD 01	CLD-TPE 6	
MARSD SQ 158		W-TRNSP	BARO 1025.	CLD-AMT 6	HW

OBSERVED

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
208	0000	073	В	32568		2549	14770
208	0010	0672	В	32590		2558	14749
208	0020	0668	В	32578		2558	14749
208	0030	0659		32583		2559	14747
208	0050	0653	B	32572		2559	14748
208	0075	0652		32568		2559	14752
208	0100	0631	В	32853		2584	14751
208	0125	0629		33628		2645	14765
208	0150	0618	В	33783		2659	14767
208	0175	0602		33861		2667	14765
208	0200	0579	В	33897		2673	14761
208	0250	0524		33904		2680	14746
208	0300	0478		33935		2688	14736
208	0400	0446		34069		2702	14741
212	0497	0426					
212	0597	0379		34202		2720	14747
212	0797	0339	В	34299		2731	14765
212	0997	0303	В	34383		2741	14784
212	1196	0275		34439		2748	14806
212	1495	0236		34510		2757	14841

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0730 B	32568	2549	14770	0000	00000	2503
0010	0672 B	32590	2558	14749	0025	00001	2414
0020	0668 B	32578	2558	14749	0049	00005	2420
0030	0659	32583	2559	14747	0073	00011	2406
0050	0653 B	32572	2559	14748	0122	00031	2409
0075	0652	32568	2559	14752	0182	00070	2414
0100	0631 B	32853	2584	14751	0240	00121	2178
0125	0629	33628	2645	14765	0288	00175	1601
0150	0618 B	33783	2659	14767	0327	00230	1475
0175	0602	33861	2667	14765	0363	00290	1400
0200	0579 B	33897	2673	14761	0397	00357	1348
0225	0552 B	3390 B	2677	14754	0431	00430	1313
0250	0524	33904	2680	14746	0464	00510	1283
0300	0478	33935	2688	14736	0527	00687	1213
	0446	34069	2702	14741	0643	01101	1087
0400			2711	14750	0749	01589	1012
0500	0425	3415 B	2111	11100	0 ()	02307	

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0378	34204		2720	14748	0847	02141	0929
0700	0354 B	34255		2726	14754	0938	02748	0872
0800	0338 B	34300		2731	14765	1024	03411	0830
1000	0303 B	34384		2741	14784	1183	04875	0742
1200	0273	34445		2749	14806	1327	06496	0677
1500	0235	34511		2757	14841	1521	09182	0601

C-REF-NO 001 YR 1964 DEPTH C 3273 WAVES 1 14XX AIR T 07.7 VIS 97 CONS. NO 028 MONTH 4 MXSAMPD 15 WAVES 2 2722 WET B 06.1 STN 005 LAT 49-10 N DAY 08 NO.DPTH 20 WND-DIR 140 WW-CODE 02 LON 132-40 W HR 03.8 W+COLOR WND-SPD 02 CLD-TPE 6 WARSD SQ 158 W-TRNSP BARO 1024. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEM	Р	SAL	OXYGEN	SGMT	SOUND
038	0000	072	n	22524		05/7	
	0000	072	B	32534		2547	14766
038	0010	0704	8	32549		2551	14762
038	0020	0692	В	32532		2551	14758
038	0030	0691		32543		2552	14760
038	0050	0685	B	32533		2552	14760
038	0075	0682		32529		2552	14763
038	0100	0675	В	32571		2556	14765
038	0125	0668	8	.32993		2590	14772
038	0150	0628	В	33499		2635	14767
038	0175	0619		33791		2660	14771
038	0200	0600	В	33853		2667	14768
038	0250	0560		33893		2675	14761
038	0300	0496		33915		2684	14743
038	0400	0440					
043	0498	0418		34090	*	2707	14746
043	0598	0390		34191		2718	14752
043	0798	0352		34303		2730	14771
043	0998	0310		34380		2740	14787
043	1198	0274		34451		2749	14806
043	1498	0235		34517		2758	14841

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0720 B	32534	2547	14766	0000	00000	2516
0010	0704 B	32549	2551	14762	0025	00001	2485
0020	0692 B	32532	2551	14758	0050	00005	2484
0030	0691	32543	2552	14760	0075	00012	2476
0050	0685 B	32533	2552	14760	0125	00032	2478
0075	0682	32529	2552	14763	0187	00072	2481
0100	0675 B	32571	2556	14765	0249	00128	2444
0125	0668 B	32993	2590	14772	0307	00193	2123
0150	0628 B	33499	2635	14767	0355	00261	1699
0175	0619	33791	2660	14771	0395	00327	1473
0200	0600 B	33853	2667	14768	0431	00397	1407
0225	0582 B	3388 B	2671	14765	0466	00473	1366
0250	0560	33893	2675	14761	0500	00556	1334
0300	0496	33915	2684	14743	0565	00739	1248
0400	0440	3399 B	2697	14738	0686	01169	1137
0500	0417	34092	2707	14746	0796	01676	1047

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0390	34193		2718	14752	0897	02244	0950
0700	0369	34258		2725	14761	0990	02863	0888
0800	0352	34304		2730	14771	1077	03536	0841
1000	0310	34381		2740	14787	1238	05020	0752
1200	0274	34448		2749	14807	1383	06650	0675
1500	0235	34517		2758	14841	1576	09320	0596

C-REF-NO 001 YR 1964 DEPTH C 2935 WAVES 1 16XX AIR T 07.2 VIS 98 CONS. NO 029 MONTH 4 MXSAMPD 15 WAVES 2 2722 WET B 06.1 STN 004 LAT 49-01 N DAY 08 NO.DPTH 20 WND-DIR 160 WW-CODE 02 LON 130-40 W HR 10.9 W-COLOR WND-SPD 05 CLD-TPE 6 MARSD SQ 158 W-TRNSP BARO 1022. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
109	0000	078	В	32372		2526	14787
109	0010	0773	В	32365		2527	14786
109	0020	0746	В	32369		2531	14777
109	0030	0744		32368		2531	14778
109	0050	0730	В	32463		2540	14777
109	0075	0722		32653		2556	.14781
109	0100	0728	В	33356		2611	14796
109	0125	0692	В	33663		2640	14790
109	0150	0681	В	33842		2655	14792
109	0175	0652		33912		2665	14786
109	0200	0626	В	33928		2669	14780
109	0250	0575		33957		2678	14768
109	0300	0544		33973		2683	14764
109	0400	0480		34020		2694	14755
109	0500	0458		34105		2704	14763
109	0600	0425		34188		2714	14767
109	0800	0371		34321		2730	14779
109	1000	0322		34389		2740	14793
109	1200	0286		34451		2748	14812
109	1500	0236		34525		2758	14842

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0780 B	32372		2526	14787	0000	00000	2716
0010	0773 B	32365		2527	14786	0027	00001	2713
0020	0746 B	32369		2531	14777	0054	00006	2676
0030	0744	32368		2531	14778	0081	00012	2675
0050	0730 B	32463		2540	14777	0134	00034	2589
0075	0722	32653		2556	14781	0198	00074	2440
0100	0728 B	33356		2611	14796	0253	00123	1928
0125	0692 B	33663		2640	14790	0298	00175	1655
0150	0681 B	33842		2655	14792	0338	00231	1511
0175	0652	33912		2665	14786	0374	00292	1425
0200	0626 B	33928		2669	14780	0410	00360	1383
0225	0599 B	33944		2674	14773	0444	00435	1341
0250	0575	33957		2678	14768	0478	00516	1305
0300	0544	33973		2683	14764	0542	00699	1261
0400	0480	34020		2694	14755	0665	01136	1162
0500	0458	34105		2704	14763	0778	01658	1083

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600 0700 0800 1000 1200	0425 0397 0371 0322 0286	34188 34261 34321 34389 34451		2714 2722 2730 2740 2748	14767 14773 14779 14793 14812	0883 0979 1069 1231 1378	02248 02891 03578 05078 06729	0993 0915 0850 0760 0686
1500	0236	34525		2758	14842	1572	09411	0592

C-REF-NO 001 YR 1964 DEPTH C 2532 WAVES 1 17X1 AIR T 08.3 VIS 94 CONS. NO 030 MONTH 4 MXSAMPD 03 WAVES 2 2722 WET B 08.3 STN 003 LAT 48-51 N DAY 08 NO.DPTH 13 WND-DIR 170 WW-CODE 45 LON 128-40 W HR 17.7 W-COLOR WND-SPD 05 CLD-TPE MARSD SQ 157 W-TRNSP BARO 1022. CLD-AMT HW

OBSERVED

GMT	DEPTH	TEMP	S A L OXYGEN	SGMT SOUND
177	0000	083 B	32471	2527 14808
177	0010	0784	32472	2534 14792
177	0020	0779 B	32466	2534 14791
177	0030	0770	32461	2535 14790
177	0050	0768 B	32462	2535 14792
177	0075	0730	32489	2542 14782
177	0100	0732 B	32595	2551 14788
177	0125	0705	33342	2613 14791
177	0150	0700 B	33582	2632 14796
177	0175	0692	33810	2651 14800
177	0200	0682 B	33854	2656 14801
177	0250	0624	33901	2668 14787
177	0300	0570	33919	2676 14774

DEPTH	TEMP	SALC	XYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0830 B	32471		2527	14808	0000	00000	2711
0010	0784	32472		2534	14792	0027	00001	2648
0020	0779 B	32466		2534	14791	0054	00005	2648
0030	0770	32461		2535	14789	0080	00012	2641
0050	0768 B	32462		2535	14792	0133	00034	2640
0075	0730	32489		2542	14782	0199	00076	2573
0100	0732 B	32595		2551	14788	0263	00133	2500
0125	0705	33342		2613	14791	0318	00196	1911
0150	0700 B	33582		2632	14796	0364	00261	1730
0175	0692	33810		2651	14800	0405	00329	1553
0200	0682 B	33854		2656	14801	0444	00403	1511
0225	0656 B	33883		2662	14795	0481	00485	1459
0250	0624	33901		2668	14787	0518	00573	1407
0300	0570	33919		2676	14774	0587	00768	1333
0500	0510							

C-REF-NO 001 YR 1964 DEPTH C 2496 WAVES 1 15XX AIR T 09.4 VIS CONS. NO 031 MONTH 4 MXSAMPD 03 WAVES 2 4922 WET B 09.1 STN 002 LAT 48-46 N DAY 08 NO.DPTH 13 WND-DIR 150 WW-CODE 41 LON 127-40 W HR 21.2 W-COLOR WND-SPD 09 CLD-TPE 6 MARSD SQ 157 W-TRNSP BARO 1023. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEMP	SALC	XYGEN SGMT	SOUND
212	0000	083 B	32237	2509	14805
212	0010	0790 B	32230	2514	14791
212	0020	0774 B	32214	2515	14786
212	0030	0760 5	32200	2516	14782
212	0050	0759 B	32425	2533	14788
212	0075	0747	32504	2541	14788
212	0100	0778 B	32900	2568	14810
212	0125	0777 B	32923	2570	14814
212	0150	0765 B	33855	2645	14825
212	0175	0736	33933	2655	14819
212	0200	0704 B	33953	2661	14811
212	0250	0646	33972	2670	14797
212	0300	0615	34007	2677	14793

0000 0830 B 32237 2509 14805 0000 00000 2886 0010 0790 B 32230 2514 14791 0029 00001 2837 0020 0774 B 32214 2515 14786 0057 00006 2829 0030 0760 32200 2516 14782 0086 00013 2822 0050 0750 B 32405 2323 2323 2323 2323	DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010 0790 B 32230 2514 14791 0029 00001 2837 0020 0774 B 32214 2515 14786 0057 00006 2829 0030 0760 32200 2516 14782 0086 00013 2822	0000	0830 B	32237	2509	14805	0000	00000	2886
0030 0760 32200 2516 14782 0086 00013 2822	0010	0790 B	32230	2514	14791	0029	00001	2837
2020	0020	0774 8	32214	2515	14786	0057	00006	2829
0050 0750 0 22/25 2522 1/700 01/1 0000/	0030	0760	32200	2516	14782	0086	00013	2822
2533 14788 U141 00036 2655	0050	0759 B	32425	2533	14788	0141	00036	2655
0075 0747 32504 2541 14788 0207 00078 2584	0075	0747	32504	2541	14788	0207	00078	2584
0100 0778 B 32900 2568 14810 0269 00133 2335	0100	0778 B	32900	2568	14810	0269	00133	2335
0125 0777 8 32923 2570 14814 0327 00200 2320	0125	0777 B	32923	2570	14814	0327	00200	2320
0150 0765 B 33855 2645 14825 0377 00269 1615	0150	0765 B	33855	2645	14825	0377	00269	1615
0175 0736 33933 2655 14819 0416 00335 1521	0175	0736	33933	2655	14819	0416	00335	1521
0200 0704 B 33953 2661 14811 0454 00407 1467	0200	0704 B	33953	2661	14811	0454	00407	1467
0225 0673 B 33963 2666 14803 0490 00486 1421	0225	0673 B	33963	2666	14803	0490	00486	1421
0250 0646 33972 2670 14797 0526 00573 1383	0250	0646	33972	2670	14797	0526	00573	1383
0300 0615 34007 2677 14793 0594 00765 1324	0300	0615	34007	2677	14793	0594	00765	1324

C-REF-NO 001	YR 1964	DEPTH C 1298	WAVES 1 13XX	AIR T 09.4	VIS
CONS. NO .032	MONTH 4	MXSAMPD 03	WAVES 2 4922	WET B 08.8	STN 001
LAT 48-42 N	DAY 09	NO.DPTH 13	WND-DIR - 130	WW-CODE 41	
LON 126-40 W	HR 00.2		WND-SPD 12		
MARSD SQ 157		W-TRNSP	BARO 1023.	CLD-AMT 8	HW

OBSERVED

GMT	DEPTH	TEM	P	SAL	OXYGEN	SGMT	SOUND
002	0000	085	В	31922		2481	14808
002	0010	0828	В	31934		2485	14802
002	0020	0850	В	31937		2482	14812
002	0030	0823		31932		2486	14803
002	0050	0768	В	32407		2531	14791
002	0075	0768		33178		2591	14805
002	0100	0748	8	33579		2626	14807
002	0125	0728		33757		2642	14806
002	0150	0720	В	33863		2652	14808
002	0175	0687	В	33925		2661	14800
002	0200	0666	В	33953		2666	14796
002	0250	0597	В	33957		2675	14777
002	0300	0572		34008		2683	14776

DEPTH	TEMP	S A L OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0850 B	31922	2481	14808	0000	00000	3148
0010	0828 B	31934	2485	14802	0031	00002	3110
0020	0850 B	31937	2482	14812	0063	00006	3140
0030	0823	31932	2486	14803	0094	00014	3107
0050	0768 B	32407	2531	14791	0153	00038	2681
0075	0768	33178	2591	14805	0213	00076	2111
0100	0748 B	33579	2626	14807	0262	00119	1789
0125	0728	33757	2642	14806	0305	00169	1633
0150	0720 B	33863	2652	14808	0345	00225	1547
0175	0687 B	33925	2661	14800	0383	00288	1461
0200	0666 B	33953	2666	14796	0419	00358	1416
0225	0631 8	3396 B	2671	14786	0454	00434	1372
0250	0597 B	33957	2675	14777	0488	00517	1332
0300	0572	34008	2683	14776	0554	00702	1269



SECTION IV

Bathythermograms

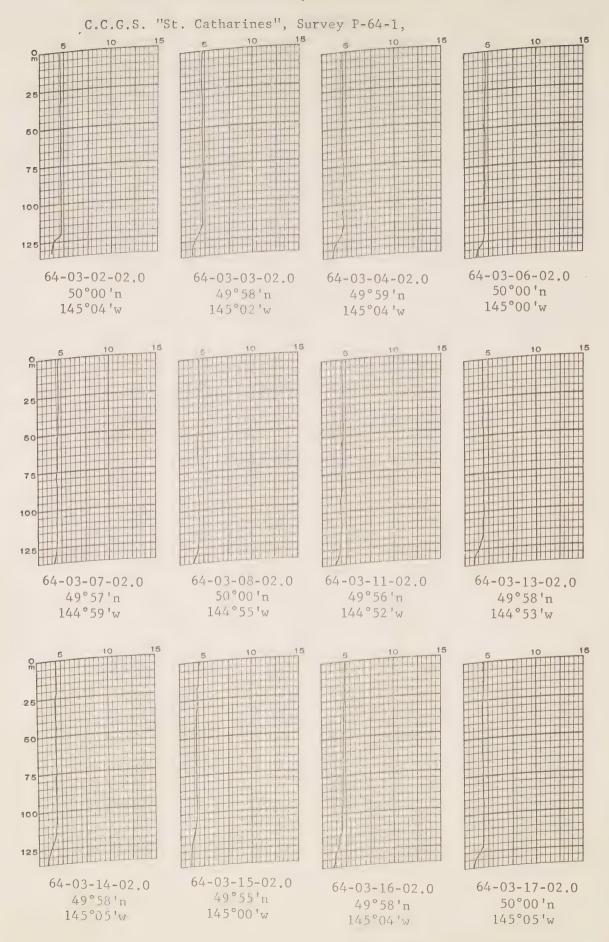


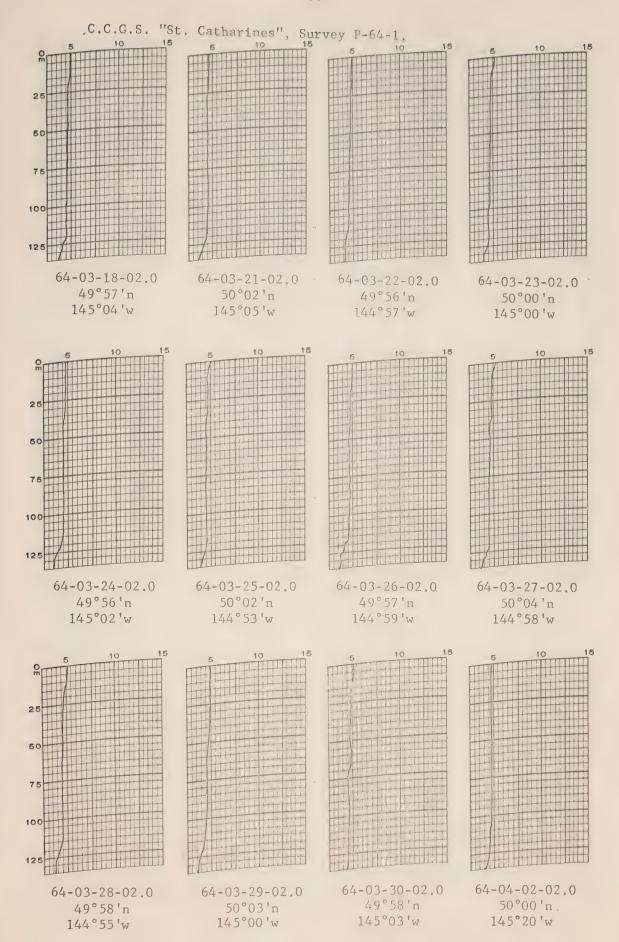
C.C.G.S. "ST. CATHARINES"

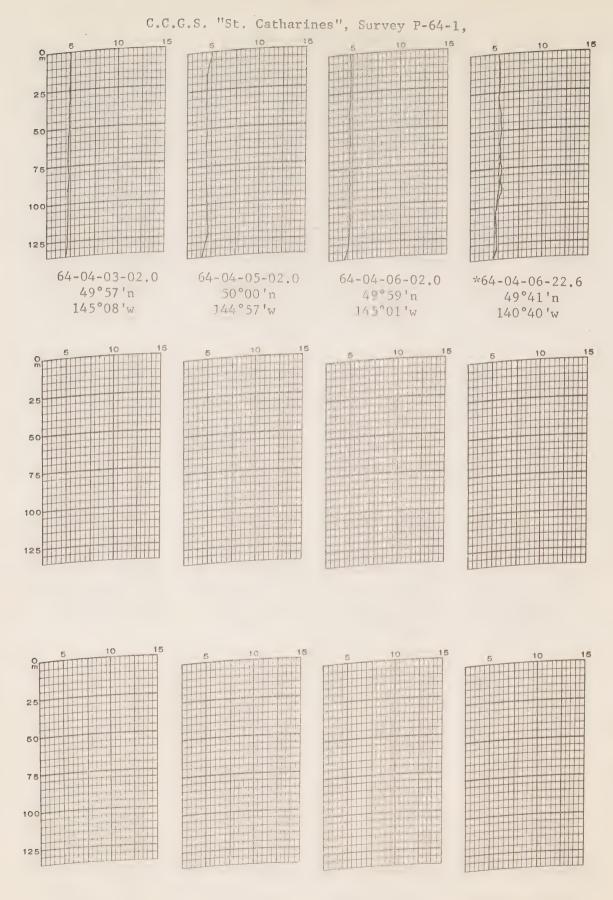
Daily bathythermograms

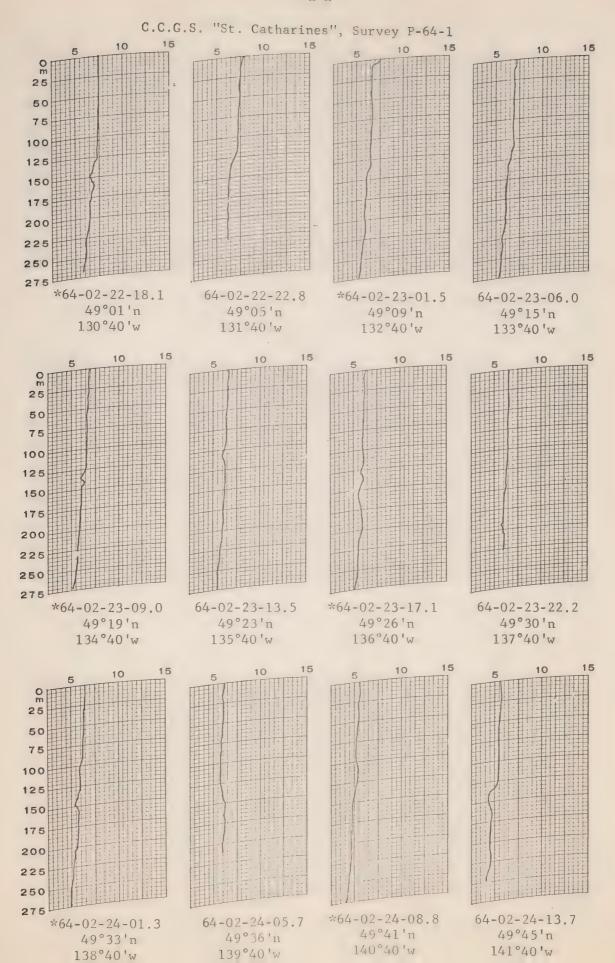
and

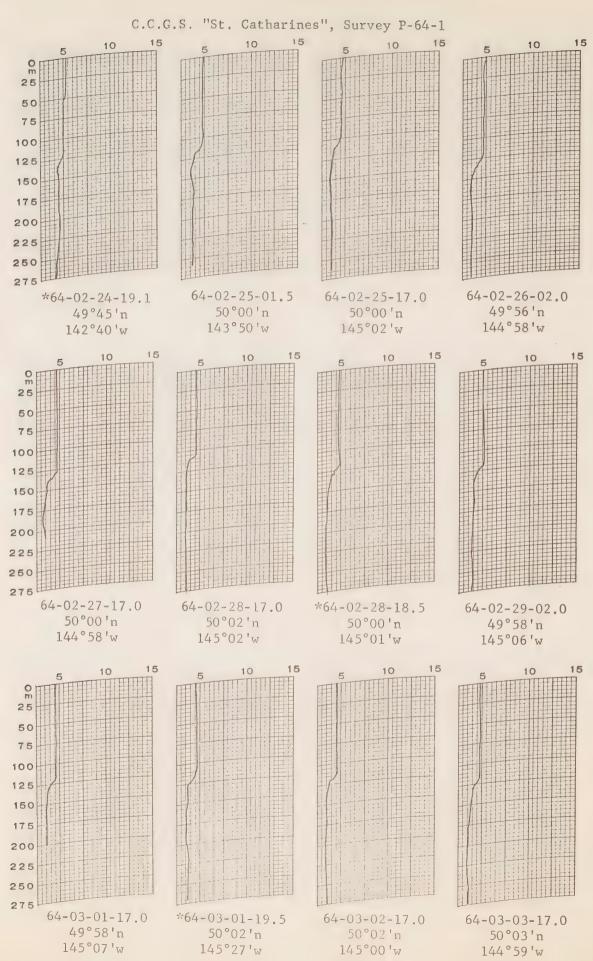
OCEAN series bathythermograms

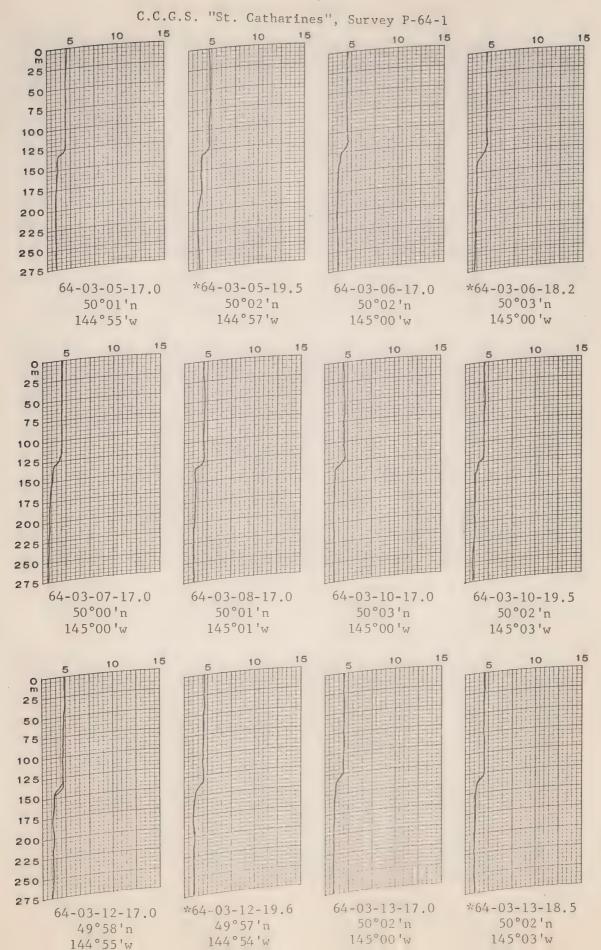


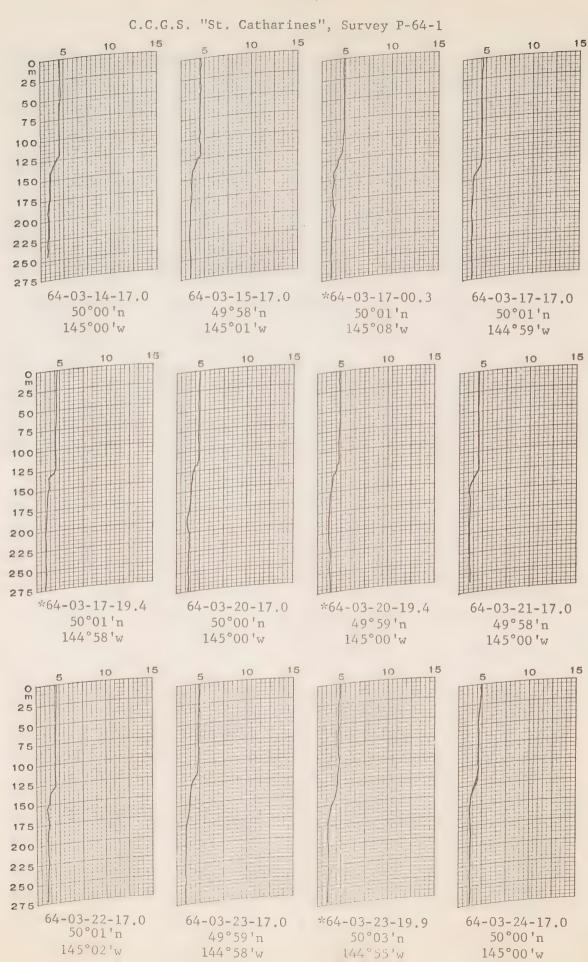


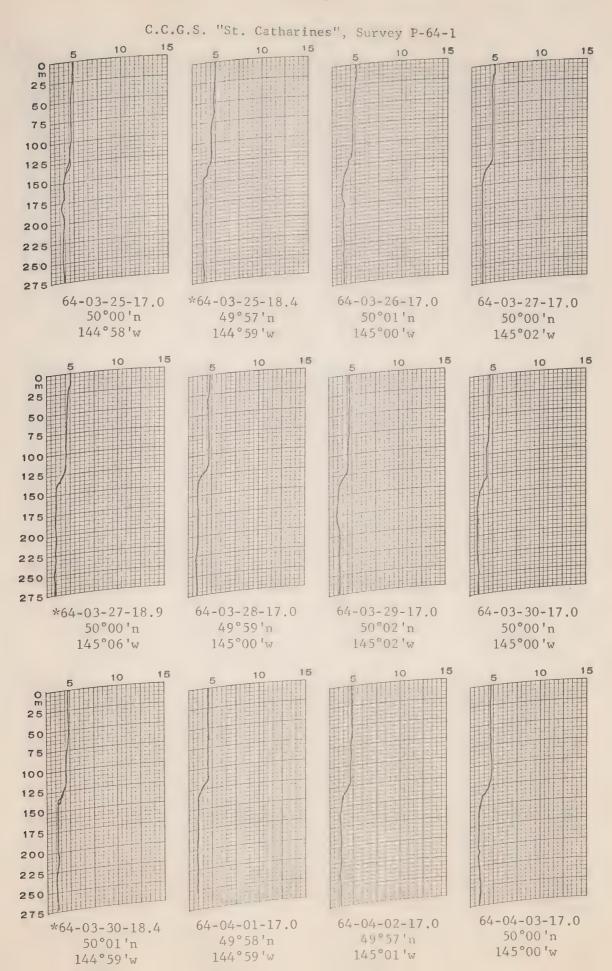


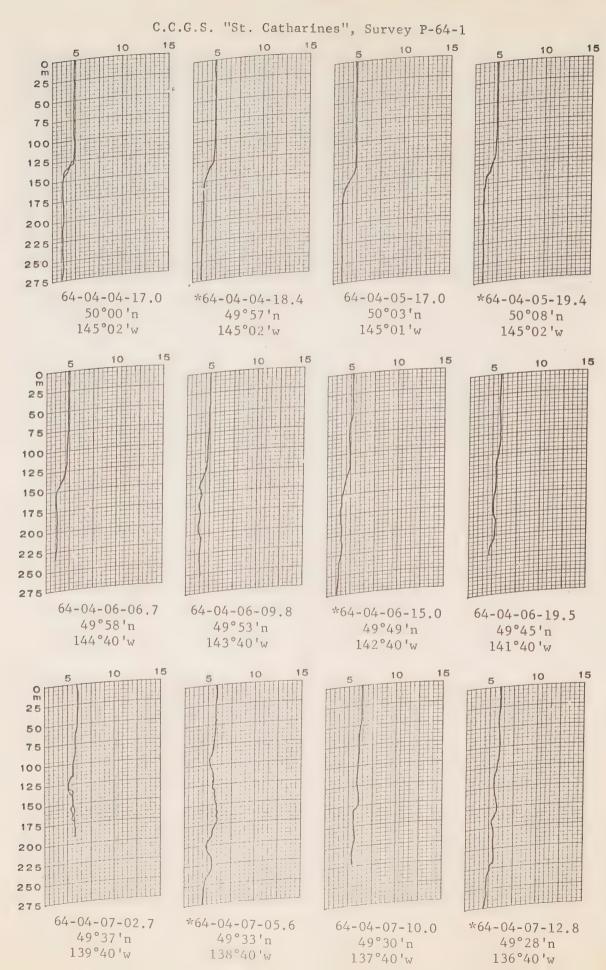


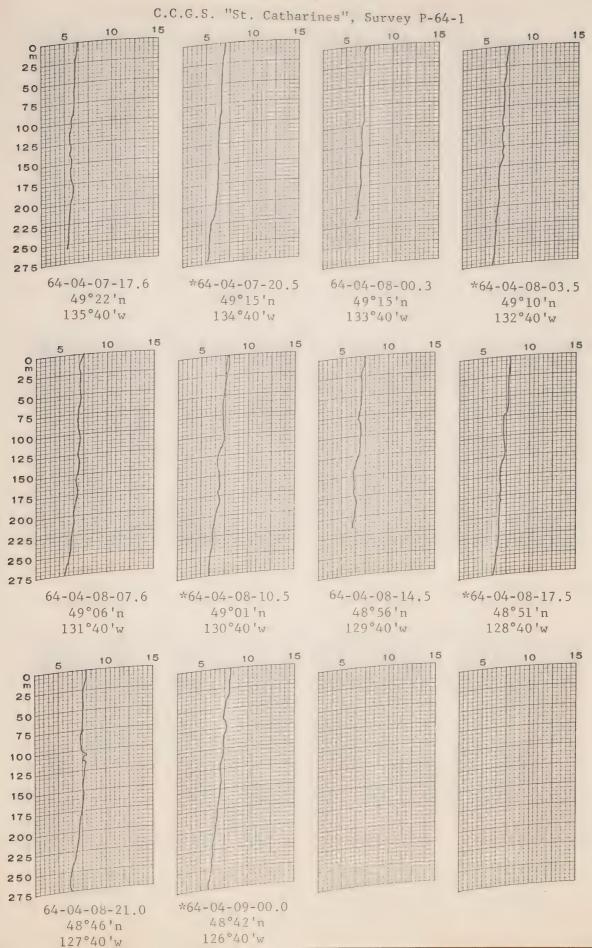


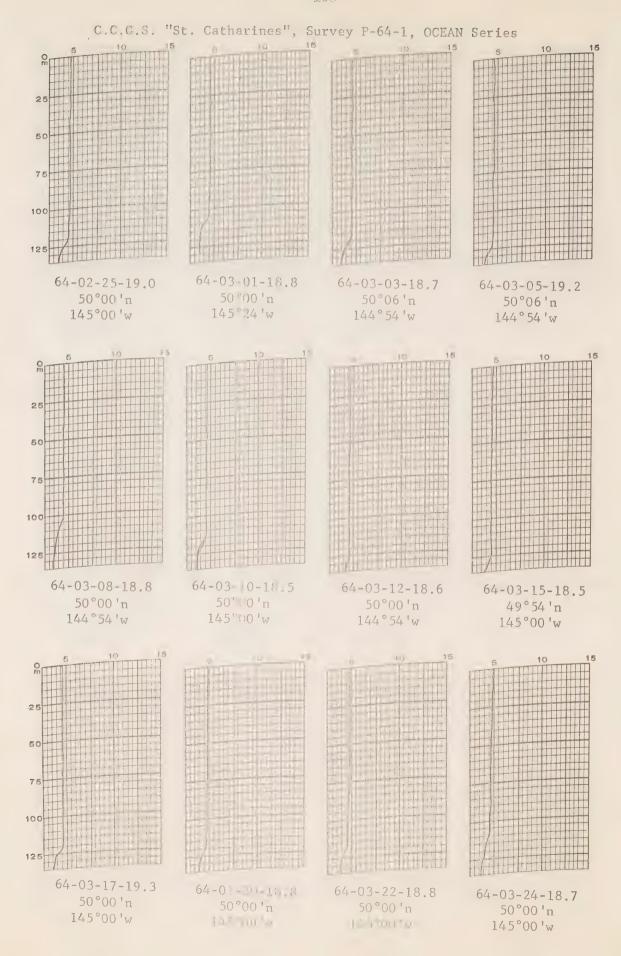


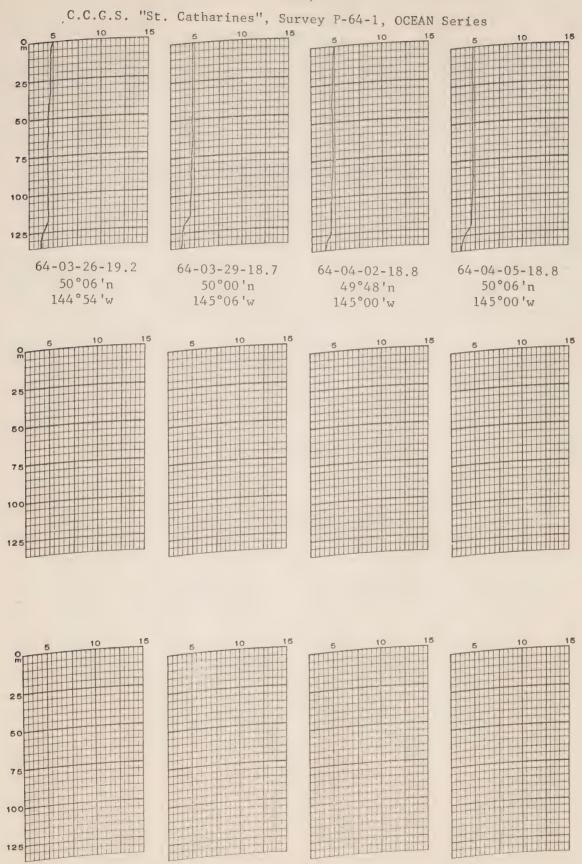














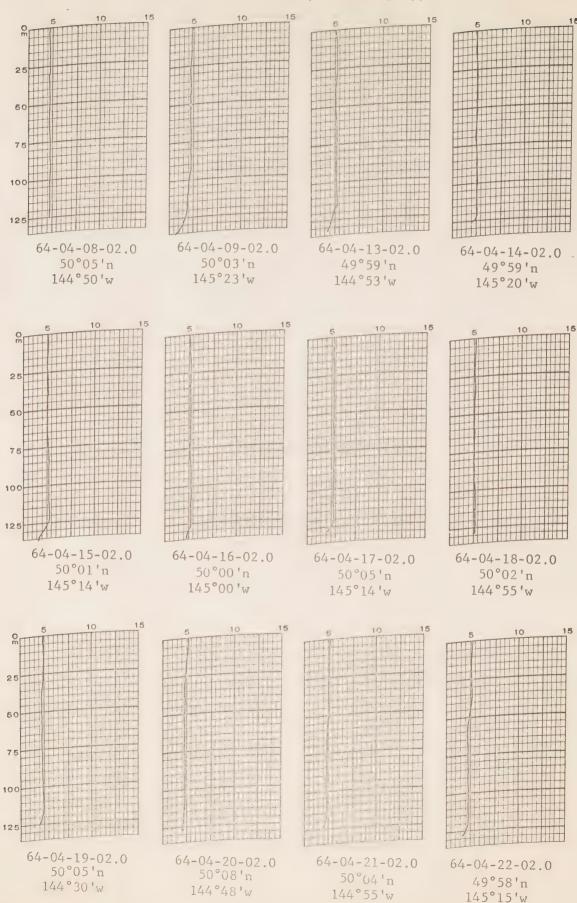
C.C.G.S. "STONETOWN" Patrol No. 60

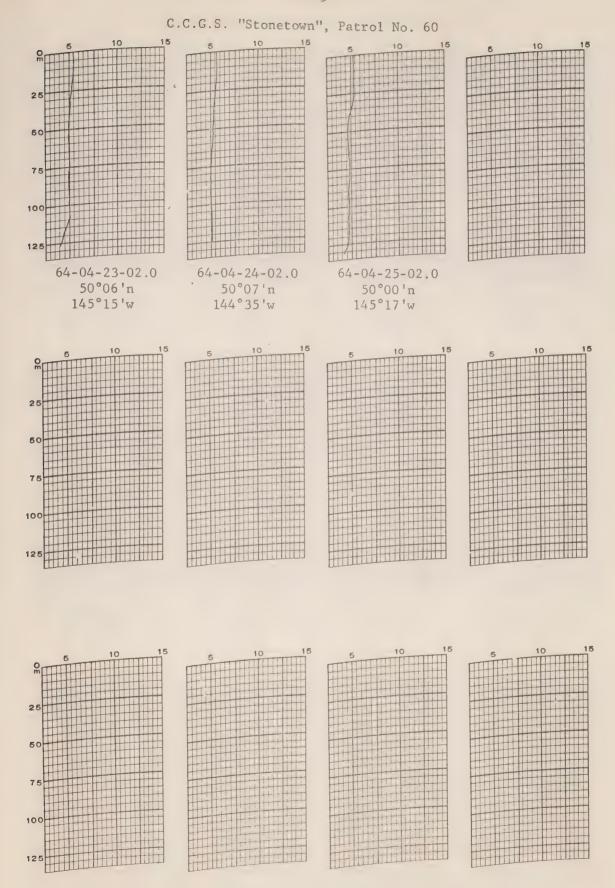
Daily bathythermograms

and

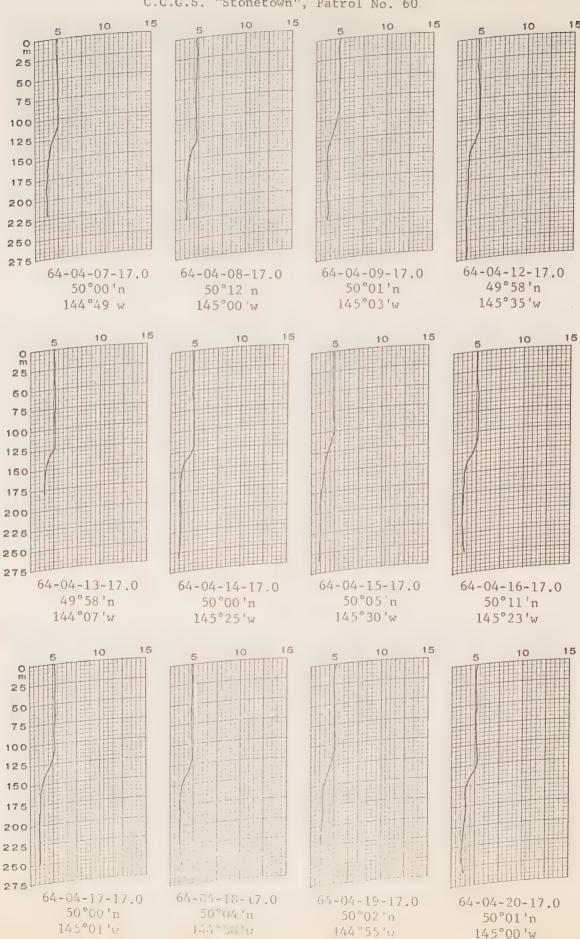
OCEAN series bathythermograms

C.C.G.S. "Stonetown", Patrol No. 60

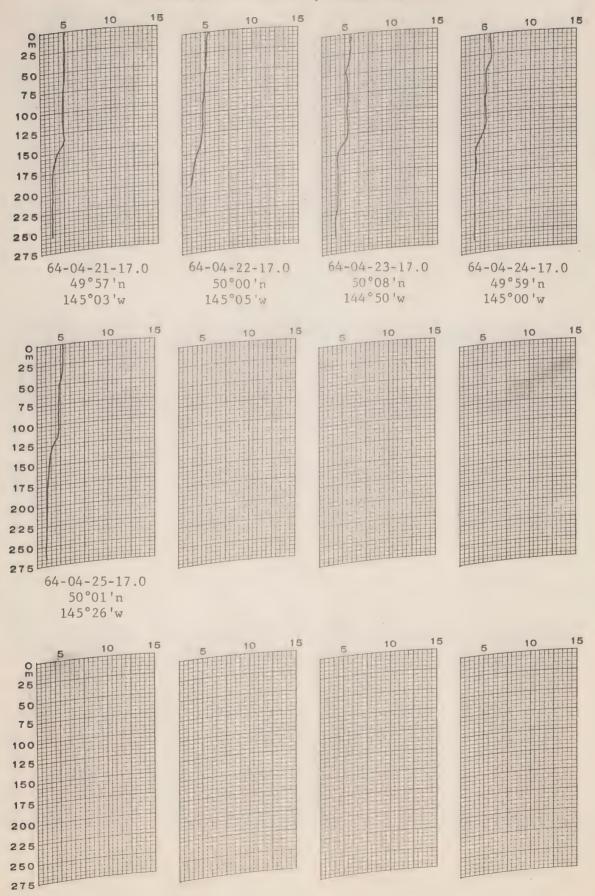




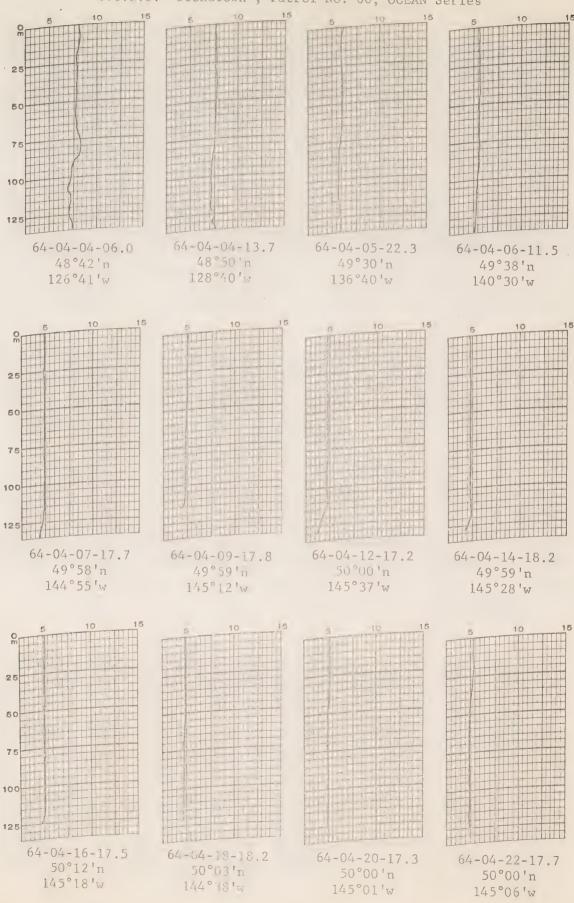
C.C.G.S. "Stonetown", Patrol No. 60



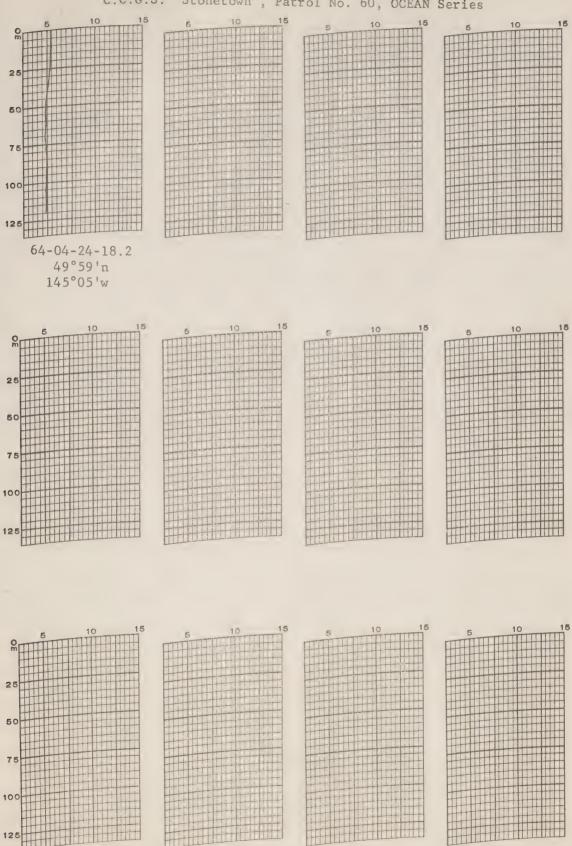
C.C.G.S. "Stonetown", Patrol No. 60



C.C.G.S. "Stonetown", Patrol No. 60, OCEAN Series



C.C.G.S. "Stonetown", Patrol No. 60, OCEAN Series





SECTION V

Surface Salinity Data



Surface salinity observations, Ocean Weather Station "P"

Date - Time		Posit	Salinity ‰	
	C.C.G.S. "St.	Catharine	s", Survey P-64	- 1
64-02-22-04.3		1.00/.51	1009/01	
22-22.8		48°45'n.	126°40'w.	32.225
23-06.0		49°05' 49°15'	131°40'	32.564
23-13.5		49°23°	133°40'	32.573
23-22.2		49°30'	135°40'	32.572
24-05.8		49°26'	137°40'	32.616
24-13.8		49°45'	139°40'	32.656
25-01.5			141°40'	32.715
26-02.0		50°00' 49°56'	143°50' 144°58'	32.815
28-02.0		50°08'		32.799
29-02.0		49°58'	145°03'	32.798
64-03-01-02.0			145°06'	32.802
02-02.0		49°54' 50°00'	145°27'	32.848
03-02.0		49°58'	145°04' 145°02'	32.801
04-02.0		49°59'	145°04'	32.777
06-02.0		50°00¹	145°00'	32.805
07-02.0		49°57'	144°59'	32.664
08-02.0		50°00'	144°55¹	32.779
09-02.0		50°00'	145°10'	32.805
10-02.0		50°00'	145°06'	32.868
11-02.0		49°56'	144°52'	32.811
12-02.0		49°58'	145°27'	32.870
13-02.0		49°58'	144°53'	32.869
14-02.0		49°58'	145°05'	32.790
15-02.0		49°55'	145°00'	32.790
16-02.0	•	49°58'	145°04'	32.833
17-02.0		50°00'	145°05'	32.811
18-02.0		49°57'	145°04'	32.813
19-02.0		49°54'	144°54'	32.823
20-02.0		49°53'	145°21'	32.801 32.822
21-02.0		50°02'	145°05'	32.802
22-02.0		49°56'	144°57'	
		50°00'	145°00'	32.850
23-02.0		49°56'	145°02'	32.835
24-02.0 25-02.0		50°02'	144°53'	32.814 32.808
		49°57'	144°59'	32.849
26-02.0 27-02.0		50°04'	144°58'	32.817
28-02.0		49°58'	144°55'	32.791
		50°03'	145°00'	32.804
29-02.0		49°58'	145°03'	32.802
30-02.0		50°01'	144°53'	32.877
31-02.0		49°50'	144 53 1 145°28 1	32.807
64-04-01-02.0		50°00'	145°20'	32.826
02-02.0		50 00	147 20	32.020

Surface salinity observations, Ocean Weather Station "P"

Date - Time	Posi	Salinity ‰	
	C.C.G.S. "St. Catharin	es", Survey P-64-1	
64-04-03-02.0	49°57'n.	145°08'w.	32.802
04-02.0	50°00'	145°04'	32.850
05-02.0	50°00'	144°57'	32.862
06-02.0	49°59'	145°01'	32.835
06-06.8	49°58'	144°40'	32.822
06-09.8	49°53 '	143°40'	32.824
06-19.5	49°45 '	141°40'	32.748
07-02.8	49°371	139°40'	32.718
07-10.0	49°30'	137°40'	32.645
07-17.8	49°22'	135°40'	32.728
08-00.3	49°15'	133°40'	32.613
08-07.8	49°06'	131°40'	32.462
08-14.5	48°56'	129°40'	32.496
	C.C.G.S. "Stonetown	n", Patrol No. 60	
64-04-07-02.0	50°05'n.	144°50'w.	32.802
09-02.0	50°03'	145°23'	32.798
10-02.0	49°55'	145°10'	32.798
11-02.0	49°50'	145°30'	32.839
12-02.0	49°48'	145°30'	32.815
13-02.0	49°59'	144°53'	32.756
14-02.0	49°59¹	145°20'	32.810
15-02.0	50°01'	145°14'	32.856
16-02.0	50°00'	145°00'	32.819
17-02.0	50°05'	145°14'	32.851
18-02.0	50°02'	144°55'	32.805
19-02.0	50°05'	144°33'	32.798
20-02.0	50°08'	144°48'	
21-02.0	50°04'	144°55'	32.818
22-02.0	49°58'	145°15'	32.800
23-02.0	50°06'	145°15'	32.826
24-02.0	50°07'	144°35'	32.808
25-02.0	50°00'	145°17'	32.791
26-02.0	50°00'	145°45'	32.798
27-02.0	49°59'	145°25'	32.804
28-02.0	.50°00'	145°25'	32.902
29-02.0	50°06'	145°15'	33,025
30-02.0	50°01'	145°18'	32.824
64-05-01-02.0	49°57'	145°35'	32.771
02-02.0	49°56'	145°17'	32.810
03-02.0	50°02'	145°00'	32.825
04-02.0	49°57'	145°20'	32.886
	47 37	143 20	32.806

Surface salinity observations, Ocean Weather Station "P"

Date - Time	Position	Salinity ‰
	C.C.G.S. "Stonetown", Patrol No. 60)
64-05-05-02.0	49°57'n. 144°45'	32.812
06-02.0	50°00' 144°42'	32.813
07-02.0	50°05' 145°02'	32.613
08-02.0	50°01' 144°49'	32.732
09-02.0	49°53' 145°06'	32.829
10-02.0	49°58' 145°30'	32.831
11-02.0	50°09' 145°00'	32.802
12-02.0	50°00' 144°59'	32.815
13-02.0	50°05' 145°02'	32.850
14-02.0	50°00' 144°53'	32.832
15-02.0	50°07' 145°01'	32.827
16-02.0	50°06' 144°52'	32.776
17-02.0	49°57' 144°58'	32.805
18-02.0	49°44' 144°30'	32.797



REFERENCES

Atlantic Oceanographic Group, MS, 1961

Canadian oceanographic research ships, 1961. Fish. Res. Bd. Canada, MS Rept. Oceanogr.

Brown, N.L., and Hamon, B.V., 1961

An inductive salinometer. Deep-Sea Research, Vol. 8, No. 1, pp. 65-75.

Canadian Oceanographic Data Centre, 1964 Ocean Weather Station "P"-North Pacific Ocean. No. 5 of the 1964 Data Record Series.

Ekman, V.W., 1908

Die Zusammendruckbarkeit des Meerwassers nebst einigen Werten fur Wasser und Quecksilber. Publ. Circ. Cons. Explor. Mer., No. 43, 47 pp.

Giovando, L.F. MS, 1962

The OCEAN system of assessment of bathy-thermograms. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 105, 58 pp.

Knudsen, Martin, 1901

Hydrographischen Tabellen. Copenhagen, 63 pp.

Rattray, M. Jr., 1962

Interpolation errors and oceanographic sampling. Deep-Sea Research. Vol. 9, pp 25 to 37.

Sauer, C.D., and Fofonoff, N.P.

Oceans II, a computer program for processing oceanographic data (Publication pending).

Strickland, J.D.H., MS, 1958

Standard methods of seawater analyses. Volume II. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 19, 78 pp.

Strickland, J.D.H. 1960

Measuring the production of marine phytoplankton. Bull. Fish. Res. Bd. Canada, No. 122, 172 pp.

Strickland, J.D.H., and Parsons, T.R., 1960

A manual of seawater analysis. Bull. Fish. Res. Bd. Canada, No. 125, 185 pp.

Wilson, W.D., 1960

Equation for the speed of sound in seawater. Journ. Acoust. Soc., America 32 (10); p. 1357.

PRINTED PUBLICATIONS OF THE CANADIAN OCEANOGRAPHIC DATA CENTRE

in the

1964 DATA RECORD SERIES

NO.	TITLE	CODC REFERENCE
1.	Hudson Bay Project - 1961	CRN 337
2.	Franklin and Darnley Bays, N.W.T.	04-63-002
3.	Southern Labrador to Northern Grand Bank	CRN 324
4.	Scotian Shelf	01-63-002
5.	Ocean Weather Station "P"	02-63-005
6.	Scotian Shelf, Halifax Section	01-63-001
7.	Halifax Approaches and Cabot Strait	CRN 352
8.	Gulf of St. Lawrence	CRN 345
9.	South-east of Grand Banks	CRN 355
10.	South-east of Grand Banks	10-63-001
11.	Scotian Shelf to Tail of Grand Bank	10-63-002
12.*	Hudson Bay Project - 1961	CRN 354 and CRN 337
13.	Great Bear Lake, N.W.T 1963 (Limnological Survey)	04-63-001
14.	ICNAF Norwestlant - 2 Survey, Canada	(01-63-003 (Part I (01-63-004 (Part II
15.	Ocean Weather Station "P"	02-63-006
16.	Scotian Shelf, Cabot Strait and Continental Slope	CRN 369
17.	Southern Labrador and Grand Banks - 1963	05-63-001 Part I 05-63-002 Part II





GC Canada. Oceanographic Data 1 Centre C35 Data record series 1964 no.19-20

PLEASE DO NOT REMOVE
CARDS OR SLIPS FROM THIS POCKET

UNIVERSITY OF TORONTO LIBRARY

